BANCROFT
LIBRARY

The Bancroft Library
University Library
University of California · Berkeley

Digitized by the Internet Archive
in 2007 with funding from
Microsoft Corporation

http://www.archive.org/details/spiritlevelingin00marsrich

DEPARTMENT OF THE INTERIOR
FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

BULLETIN 654

SPIRIT LEVELING IN NEVADA

1897 TO 1916, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER

WASHINGTON
GOVERNMENT PRINTING OFFICE
1917

DEPARTMENT OF THE INTERIOR
FRANKLIN K. LANE, Secretary

UNITED STATES GEOLOGICAL SURVEY
GEORGE OTIS SMITH, Director

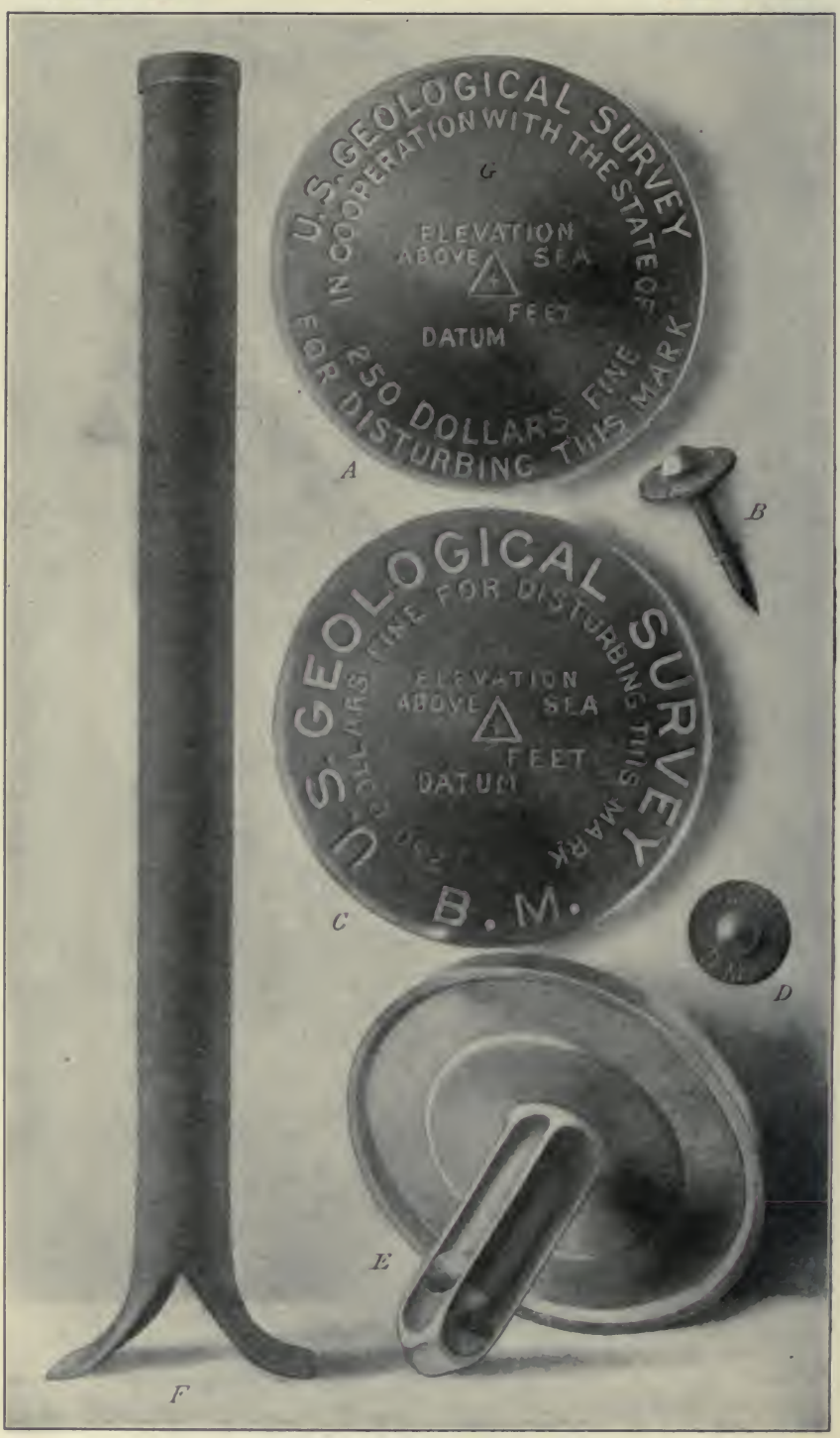
Bulletin 654

SPIRIT LEVELING IN NEVADA

1897 TO 1916, INCLUSIVE

R. B. MARSHALL, CHIEF GEOGRAPHER

WASHINGTON
GOVERNMENT PRINTING OFFICE
1917



GEOLOGICAL SURVEY BENCH MARKS.

A, Tablet used in cooperating States. The State name is inserted at *G*.
B and *D*, Copper temporary bench mark, consisting of a nail and copper washer.
A, *C*, and *E*, Tablets for stone or concrete structures.
F, Iron post used where there is no rock.

SPIRIT LEVELING IN NEVADA, 1897 TO 1916, INCLUSIVE.

R. B. Marshall, Chief Geographer.

INTRODUCTION.

Previous publication.—All results of spirit leveling in Nevada previously published by the United States Geological Survey in Bulletin 488 and all the results of later work are included in this report. The elevations are based on 1912 adjustment heights of bench marks along the precise-level lines of the United States Coast and Geodetic Survey.

Personnel.—The field work previous to 1903 was done under the general direction of R. U. Goode, geographer; that for 1903 to 1906, inclusive, under E. M. Douglas, geographer; that for 1907 under R. B. Marshall, geographer; and the later work under T. G. Gerdine and G. R. Davis, geographers, under the general direction of R. B. Marshall, chief geographer. The names of the respective levelmen are given in the introductions to the several lists. The office work of computation, adjustment, and preparation of lists was done mainly by S. S. Gannett, geographer, under the general direction of E. M. Douglas, geographer.

Classification.—The elevations are classified as precise or primary, according to the methods employed in their determination. Precise elevations are determined by lines of levels run either in both forward and backward directions or by simultaneous double-rodded lines, a high-grade instrument being used and special precautions being taken in observations and reduction to correct errors and make the line continuously good throughout. Primary elevations are determined with the Y level, precautions being taken against only the principal errors and the levels being run mostly in circuits of single lines. The allowable limit of error observed in the precise work already done by the Geological Survey in this State is represented in feet by $0.017 \sqrt{D}$ and that for primary work by $0.05 \sqrt{D}$, in which D is the length of the circuit in miles.

Bench marks.—The standard bench marks are of two forms. The first form is a circular bronze or aluminum tablet (*C* and *E*, Pl. I), 3½ inches in diameter and ¼ inch thick, having a 3-inch stem, which is cemented in a drill hole in solid rock in the wall of some public building, a bridge abutment, or other substantial masonry structure. The second form (*F*, Pl. I), used where masonry or rock is not avail-

able, consists of a hollow wrought-iron post 3½ inches in outer diameter and 4 feet in length, which is set about 3 feet in the ground. The bottom is spread out to a width of 10 inches in order to give a firm bearing in the earth, and a bronze or aluminum-bronze cap is riveted upon the top of the post. A third style of bench mark, with abbreviated lettering (*B* and *D*, Pl. I), is used for unimportant points. This consists of a special copper nail 1½ inches in length driven through a copper washer ⅝ inch in diameter. The tablets as well as the caps on the iron posts are appropriately lettered, and cooperation by a State is indicated by the addition of the State name (*G*, Pl. I).

The numbers stamped on the bench marks described in the following pages represent the elevations to the nearest foot as determined by the levelman. These numbers are stamped with $\frac{3}{16}$-inch steel dies on the tablets or post caps, to the left of the word "Feet." The office adjustment of the notes and the reduction to mean sea-level datum may so change some of the figures that the original markings are 1 or 2 feet in error. It is assumed that engineers and others who have occasion to use the bench-mark elevations will apply to the Director of the United States Geological Survey, at Washington, D. C., for the adjusted values, and will use the markings as identification numbers only.

Datum.—All elevations determined by the United States Geological Survey and United States Coast and Geodetic Survey are referred to mean sea level, which is the level that the sea would assume if the influence of winds and tides were eliminated. This level is not the elevation determined from the mean of the highest and the lowest tides, nor is it the half sum of the mean of all the high tides and the mean of all the low tides, which is called the half-tide level. *Mean sea level is the average height of the water, all stages of the tide being considered.* It is determined from observations made by means of tidal gages placed at stations where local conditions, such as long, narrow bays, rivers, and like features, will not affect the height of the water. To obtain even approximately correct results these observations must extend over at least one lunar month, and if accuracy is desired they must extend over several years. At ocean stations the half-tide level and the mean sea level usually differ but little. It is assumed that there is no difference between the mean sea levels determined from observations in the Atlantic Ocean, the Gulf of Mexico, and the Pacific Ocean.

The connection with tidal stations for bench marks in certain areas that lie at some distance from the seacoast is still uncertain, and this fact is indicated by the addition of a letter or word to the right of the word "Datum" on tablets or posts. For these areas corrections for published results will be made from time to

time as the precise-level lines of the United States Geological Survey, the United States Coast and Geodetic Survey, or other Government organizations are extended.

Topographic maps.—Maps of the following quadrangles wholly or partly in Nevada have been published by the United States Geological Survey up to July 1, 1917. Maps now in stock may be obtained for 10 cents each or $3 for 50 on application to the Director of the Survey at Washington, D. C.:

*Amargosa region (Nev.-Cal.).[1]
Ballarat (Cal.-Nev.).[2]
Bridgeport (Cal.-Nev.).[3]
Bristol Range.
Bullfrog special.
Camp Mohave (Ariz.-Nev.-Cal.).
Carson.[4]
Carson Sink.
Disaster
Ely special.
Furnace Creek (Cal.-Nev.).[1]
Goldfield special.
Granite Range.
Hawthorne (Nev.-Cal.).
Ivanpah (Cal.-Nev.).[2]
Kawich.[1]
*Lake Tahoe and vicinity (Cal.-Nev.).[4]
Las Vegas (Nev.-Cal.).
Lida (Nev.-Cal.).[1]
Long Valley.
Manhattan.
Markleeville (Cal.-Nev.).[4]
Paradise.
Pioche (Nev.-Utah.).
Reno.
St. Thomas (Nev.-Ariz.).
Silver Peak (Nev.-Cal.).
Tonopah.
Tonopah mining.
Wabuska.
Wadsworth.
Wellington (Cal.-Nev.).
Yerington.

PRECISE AND PRIMARY LEVELING.

Aura, Battle Mountain, Bridgeport, Bristol Range, Camp Mohave, Carson Sink, Cedar Pass, Cobre, Deeth, Elko, Ely Special, Furnace Creek, Gold Creek, Halleck, Hawthorne, Highland, Ivanpah, Jean, Kawich, Kumiva, Las Vegas, Lida, Lovelocks, Mill City, Palisade, Panaca, Pioche, Pyramid, Reno, St. Thomas, Silver Peak, Stonehouse, Tonopah, Wabuska, Wadsworth, Wellington, White Mountain, White Plains, and Winnemucca quadrangles.

CLARK, CHURCHILL, ESMERALDA, ELKO, EUREKA, HUMBOLDT, LANDER, LINCOLN, LYON, MINERAL, NYE, ORMSBY, STOREY, WASHOE, AND WHITE PINE COUNTIES.

AURA QUADRANGLE.

[Latitude 41° 30′–42°; longitude 116°–116° 30′.]

From a point 4.5 miles north of Owyhee south along highways to a point 1.1 miles south of that place, thence southwest 8.4 miles, thence northwest 6.1 miles to northeast corner of T. 46 N., R. 50 E., thence north to Idaho-Nevada State line.

Primary leveling by General Land Office, 1911–12. Elevations unchecked and therefore unreliable.

	Feet.
Owyhee, 3.88 miles north of, 5 feet east of center of road, in sage brush flat; hub marked "E"	5,350.12

* Out of print.

[1] Amargosa region map includes Kawich sheet and parts of Ballarat, Furnace Creek, and Lida sheets.

[2] Shows wooded areas.

[3] Yosemite National Park map includes part of Bridgeport sheet.

[4] Lake Tahoe and vicinity map includes Carson and Markleeville sheets.

	Feet.
Owyhee, 2.95 miles north of, on low summit, west of house at foot of mountain, 4 feet west of center of road; hub marked "D"	5,359.50
Owyhee, 2.22 miles north of, 0.25 mile northwest of missionary's cabin, 5 feet east of center of road; hub marked "C"	5,366.45
Owyhee, 1.32 miles north of, 400 feet north of old cabin, 250 feet east of corrall, 60 feet north of junction, 7 feet west of road; hub marked "B"	5,375.27
Owyhee, 0.68 mile north of, 60 feet south of gate, in grass flat 6 feet east of center of road; 1-inch hub marked "A"	5,379.03
Owyhee, 30 feet west of front door of Indian school and dormitory, 3 feet south of gate, 2 feet inside of fence; standard bench-mark post No. 35 marked "5430"	5,430.801
Owyhee, 0.16 mile southwest of, in front of Indian house, west side of walk; marked rock	5,403.78
Owyhee, 0.74 mile southwest of, 1 foot east of fence line, near blazed post; red marked rock	5,404.80
Owyhee, 1.16 miles southwest of, at first turn to left after crossing bridge over Owyhee River, on right side of road to Owyhee, almost flush with ground; sapling hub	5,400.69
Owyhee, 2 miles southwest of, on south side of small bridge, ½ inch above floor marked red; spike	5,399.79
Owyhee, 3.2 miles southwest of, on southeast corner of floor of small bridge; spike	5,396.32
Owyhee, 3.3 miles southwest of, on floor on left side of bridge over irrigation ditch; knot	5,401.86
Owyhee, 4.6 miles southwest of, in sage-brush flat, 100 feet east of depression in road, 40 feet west of low summit, 1 mile northeast of Volcanic Cone, 4 feet north of center of road; standard bench-mark post No. 34 marked "5399"	5,400.557
Owyhee, 5.8 miles southwest of, 3.5 feet north of center of road near base of Volcanic Cone, set flush with ground; top of 1-inch hub	5,419.99
Owyhee, 6.7 miles southwest of, 4 feet south of center of road, driven flush with ground; top of peg	5,420.50
Owyhee, 8.2 miles southwest of, 600 feet southwest of drain, northwest of center of road; peg	5,407.25
Owyhee, 9.6 miles southwest of, 3 miles west of conical hill on south side of road 0.2 mile east of first hill on north side of road, 0.2 mile north of summit in road; 6 feet north of center of road; standard bench-mark post No. 33, stamped "5422"	5,423.100
T. 46 N., R. 51 E., northwest corner, 4.8 miles southeast of, on side hill; peg	5,352.58
T. 46 N., R. 51 E., northwest corner, 3.7 miles southeast of, in creek bed; top of rock	5,325.88
T. 46 N., R. 51 E., northwest corner, 2.9 miles southeast of, at east end of rocky point, 15 feet west of creek bed; stake	5,408.20
T. 46 N., R. 51 E., northwest corner, 1.8 miles southeast of; stake	5,515.14
T. 46 N., R. 51 E., northwest corner, 1.5 miles southeast of, on summit 300 feet east of rim rock; stake	5,580.70
T. 46 N., R. 51 E., northwest corner, 0.9 mile southeast of; stake	5,634.33
T. 46 N., R. 51 E., northwest corner, 0.2 mile southeast of, in drain; stake	5,690.08
Tps. 46 and 47 N., Rs. 50 and 51 E., corners of secs. 1, 6, 31, and 36, in center of drain between two ridges 600 feet apart and 0.2 mile east of rim of saucer-like depression; standard bench-mark post	5,721.348

	Feet.
T. 47 N., R. 50 E., southeast corner, 0.5 mile north of; stake	5,731.84
T. 47 N., R. 51 E., sec. 30, 5 chains north of southwest corner; stake	5,699.94
T. 47 N., R. 51 E., 0.6 mile north of southwest corner of sec. 30; stake	5,690.62
T. 47 N., R. 51 E., 20 feet north of northwest corner of sec. 30; stake	5,720.04
T. 47 N., R. 51 E., 0.7 mile north of southwest corner of sec. 19; stake	5,770.25
T. 47 N., R. 51 E., 10 chains north of southwest corner of sec. 18, on side hill; stake	5,784.58
T. 47 N., R. 51 E., 0.7 mile north of southwest corner of sec. 18, 400 feet west of drain near pile of large rocks; stake	5,708.44
T. 47 N., R. 51 E., 0.2 mile north of southwest corner of sec. 7, on west slope of rim; stake	5,759.07
T. 47 N., R. 51 E., 0.5 mile south of northwest corner of sec. 7; stake	5,863.57
T. 47 N., R. 51 E., 20 feet west of northwest corner of sec. 7; stake	5,858.18
T. 47 N., R. 51 E., northwest corner of, 800 feet north of old lake bed, on small rise, 0.5 mile north of rocky swell on ridge; standard bench-mark post, marked "5892"	5,893.728

From point near Owyhee southeast along highway toward Mountain City.

Owyhee, 1.16 miles southeast of, on east side of road to Owyhee, at first turn in road to left after crossing bridge over Owyhee River, set almost flush with ground; sapling hub	5,400.69
Owyhee, 1.64 miles southeast of, west side of road; on rock	5,418.53
Owyhee, 2.16 miles southeast of, south side of road; on rock	5,424.82
Owyhee, 2.7 miles southeast of, on knoll, north of road, driven on bare spot; peg	5,436.35
Owyhee, 3.4 miles southeast of, 0.25 mile southeast of rocky point, 100 yards north of Owyhee River, 200 yards west of junction with creek from north, 0.5 mile west of mountain with triple lava ledges, 20 feet southwest of southwest corner of small cabin; standard bench-mark post stamped "5452"	5,453.400
Owyhee, 4.23 miles southeast of, 30 feet southwest of second telephone pole from bottom; top of rock	5,466.51
Owyhee, 4.86 miles southeast of, east of big crag on west, in circle of rocks north side of rocky crag; rock	5,474.28
Owyhee, 5.43 miles southeast of, 15 feet south of trail, chiseled circle around bench mark; point on rock	5,459.96
Owyhee, 5.6 miles southeast of, 1.5 miles above cabin, north of black rock ledge, Island Butte south of creek good dam site, at second ford of main creek; water level	5,449.6
Owyhee, 6.4 miles southeast of, 0.5 mile west of junction of roads, 0.25 mile north of rocky ledges, 200 yards south of high rocky point, 100 yards north of creek, 5 feet north of center of road, in granite boulder 4 by 3 by 3 feet; bronze tablet stamped "5490"	5,491.156
Owyhee, 7.8 miles southeast of, in road, by telephone pole; peg	5,513.71
Owyhee, 9.4 miles southeast of, high up on rock	5,530.89
Owyhee, 9.40 miles southeast of, where road turns south, in telephone pole; spike	5,538.12
Owyhee, 9.5 miles southeast of, 30 feet east of road summit; on rock	5,559.61
Owyhee, 10.10 miles southeast of, east of road and 10 feet lower; on rocky ledge	5,566.92

From point 9.6 miles southwest of Owyhee south along highway 3.2 miles. (Single spur line; elevations unreliable.)

	Feet.
Owyhee, 10.10 miles southwest of, on bluff; rock	5,396.18
Owyhee, 12.4 miles southwest of, 4 feet west of center of road near rock bluff on west; hub	5,530.70
Owyhee, 12.7 miles southwest of, 1 mile southwest of round-topped hill, on summit opposite low rocky bluff on west, 6 feet east of center of road; standard bench-mark post No. 32, stamped 5601"	5,602.157

BATTLE MOUNTAIN QUADRANGLE.

[Latitude 40° 30′–41°; longitude 116° 30′–117°.]

From Ladoga west along Southern Pacific R. R. to Battle Mountain. (Precise leveling by U. S. Coast and Geodetic Survey.)

Ladoga, 0.3 mile east of station sign, 75 meters east of milepost 504, 19 meters south of Southern Pacific R. R. track, in top of stone post; bottom of square hole (C. & G. S. b. m. G_6)	4,661.211
Farrel, 120 meters east of station sign, 10 meters east of section tool house No. 29, 24 meters north of track, in top of stone post; bottom of square hole (C. & G. S. b. m. H_6)	4,629.075
Mosel, 100 meters east of station sign, 90 meters west of milepole 493, 0.8 meter north of south line fence, 60 meters south of track, in top of stone post; bottom of square hole (C. & G. S. b. m. I_6)	4,585.086
Argenta, 100 meters east of west point of railroad siding, 1.5 meters north of south line fence, opposite frame ranch dwelling painted white, in top of stone post; bottom of square hole (C. & G. S. b. m. J_6)	4,536.641
Rosny, 30 meters east of station sign, 1.5 meters south of milepole 482, in top of stone post; bottom of square hole (C. & G. S. b. m. K_6)	4,529.016
Battle Mountain, on southwestern one of four central concrete pillars under railroad water tank, 50 meters west of station; red-metal disk (C. & G. S. b. m. L_6)	4,510.129
Battle Mountain, about 1.5 miles northwest of, at milepost 474, 51.5 meters north of track, 9.1 meters south of the north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. M_6)	4,503.905

BRIDGEPORT QUADRANGLE.

[Latitude 38°–38° 30′; longitude 119°–119° 30′.]

From point on State line at Bridgeport-Sweetwater stake road east to junction of East Walker River and Bodie Creek. (Leveling by C. M. Weston in 1909.)

Bridgeport, 13.7 miles northeast of, on California-Nevada State line, survey of 1873, 25 feet west of road; iron post stamped "5956"	5,949.165
Bridgeport, 15 miles northeast of, 700 feet north of Fulsome-Frederick's ranch, in field, 30 feet east of road, on boulder; chiseled square painted "5895"	5,887.83
Sweetwater, 5 miles southeast of, at P. J. Conway's ranch, 30 feet northward of northwest corner of house, at corner of fence; iron post stamped "5821"	5,814.081

	Feet.
Fletcher, 16.6 miles northwest of, on iron bridge over East Walker River, at southeast corner; seventh outside bolt from bottom of east girder, painted white, marked "5773"	5,766.37
Fletcher, 15.2 miles northwest of, 30 feet west of sharp bend in road at west end of cut-off, 5 feet south of and 3 feet above road, on ledge; chiseled square painted "5826"	5,819.27
Fletcher, 14.4 miles northwest of, at summit in road, west of The Elbow, 15 feet south of road; iron post stamped "5891"	5,883.934
Fletcher, 13.6 miles northwest of, on east side of road, 75 feet east of deep draw and 125 feet south of bend in road, 10 feet from center of road, on 3-foot boulder; chiseled square painted "5852"	5,844.85
Fletcher, 12.9 miles northwest of, on steep grade west of The Elbow, at ditch crossing, 8 feet north of road, on boulder; chiseled square painted "5842"	5,834.85
The Elbow, teaming station, 3 feet from southwest corner of John Cumpton's house; iron post stamped "5631"	5,624.095
Fletcher, 10 miles northwest of, at Wheeler's ranch, junction of Bodie Creek and East Walker River, 35 feet south of southwest corner of house; iron post stamped "5585"	5,578.204

BRISTOL RANGE QUADRANGLE.

[Latitude 38°–38° 15′; longitude 114° 30′–114° 45′.]

From point 4.8 miles north of Pioche along highways northwest to Bristol Pass, thence southwest to Bristol Well, thence south 6.1 miles. (Primary leveling by Roscoe Reeves in 1915.)

Pioche, 5.9 miles northwest of, 3.5 miles north of railroad crossing, 15 feet south of fork of road to "Prince Consolidated mine," east margin of road; iron post stamped "5839"	5,839.133
Pioche, 7 miles northwest of, 4.6 miles north of railroad crossing, 275 feet south of second-class road forks to southwest, west margin of road; chiseled square in limestone ledge, painted "5863"	5,862.48
Pioche, 8.4 miles northwest of, 6 miles north of railroad crossing, 0.3 mile north of second-class road forks to southwest, east margin of road; iron post stamped "5937"	5,936.727
Jack Rabbit mine, 4.4 miles southeast of, 50 feet south of summit of long rise in road, 10 feet west of road; copper nail in cedar stump painted "5939"	5,939.22
Jack Rabbit mine, 2.75 miles southeast of, at T road forks west, 20 feet northwest of center of forks, in top of lime rock placed flush with ground; bronze tablet stamped "5953"	5,952.942
Jack Rabbit mine, 1.75 miles southeast of, 50 feet southwest of second-class road crossing; point of small rock 3 inches high, painted "5991"	5,990.92
Jack Rabbit mine, 1 mile southeast of, in southeast corner of stone house, 1.3 feet above ground; scrap of iron driven between stones, painted "6082"	6,081.97
Jack Rabbit mine, 200 feet east of saloon, 15 feet south of street, in limestone ledge, flush with ground; bronze tablet stamped "6,446"	6,445.823
Jack Rabbit mine, 1.4 miles north of, 0.3 mile south of road forks, top of hill, east side of road; copper nail in cedar stump painted "6,173"	6,172.33

	Feet.
Jack Rabbit mine, 2 miles north of, in southeast corner of crossroads, 18 feet from center of crossing, on top of placed rock 3 inches exposed; chiseled square painted "6,139"	6,139.00
Bristol Pass, highest point of, 110 feet northwest of road forks, 45 feet north of road, in limestone ledge flush with ground; bronze tablet stamped "6,150"	6,149.486
Bristol Pass, 0.6 mile west of, north margin of road, top of boulder about 3½ feet high; painted circle, painted "5,978"	5,977.72
Bristol Pass, 1.5 miles west of, 18 feet south of road, top of boulder 1 foot exposed; painted circle, painted "5,821"	5,820.92
Bristol Pass, 2.4 miles west of, 85 feet northeast of fork of road to Bristol mine, on rock flush with ground; painted circle, painted "5,665"	5,664.24
Bristol Well, in southwest corner of road forks, in northeast corner of stone house, 2½ feet above ground; bronze tablet stamped "5,452"	5,451.413
Bristol Well, 0.9 mile south of, in southwest corner of road forks, on top of placed rock about 7 inches exposed; painted circle, painted "5,586"	5,585.53
Bristol Well, 2.3 miles south of, west margin of road, on top of small limestone rock; painted circle, painted "5,659"	5,658.62
Bristol Well, 3.2 miles south of, at forks of road to southeast, 10 feet west of road forks; iron post stamped "5,733"	5,733.247
Bristol Well, 4.1 miles south of, 15 feet north of road forks, west side of road, on top of limestone rock; painted circle, painted "5,655"	5,655.06
Bristol Well, 5.2 miles south of, 20 feet north of fork of road to Pahroc Springs, west side of road; iron post stamped "5,506"	5,505.926
Bristol Well, 6.1 miles south of, 1 mile south of road forks, east side of road, top of rock; painted circle, painted "5,446"	5,446.03

CAMP MOHAVE 1° QUADRANGLE.

[Latitude 35°–36°; longitude 114°–115°.]

From point 15 miles southeast of Las Vegas along road south to Searchlight, thence southwest along Atchison, Topeka & Santa Fe Ry. 5 miles to State line. (Primary leveling by L. F. Biggs in 1909.)

Mesquite Spring, 6.4 miles south of, in road forks, at junction of Searchlight and Railroad Pass roads, in lava boulder buried flush with ground; aluminum tablet stamped "2049 B 1909 3"	2,047.368
Mesquite Spring, 9.2 miles south of, east edge of road, on outcropping boulder; painted "2408" chisel point	2,406.38
Mesquite Spring, 10.7 miles south of, 50 feet east of road, on summit between Mesquite Spring and Dry Lake, in lava rock; aluminum tablet stamped "2617 B 1909 4"	2,615.758
Dry Lake, 2.5 miles north of north edge of, east edge of road, at point of rocks, in ledge; chisel point, rock painted "2102"	2,100.70
Dry Lake, north edge of, 100 feet east of forks of Eldorado Canyon and Searchlight roads, 50 feet north of well, in lava boulder buried flush with ground; aluminum tablet stamped "1712 B 1909 5"	1,709.966
Dry Lake, south edge of, 40 feet south of road, in granite boulder buried flush with ground; copper bolt stamped "U. S. G. S. B. M. 1711 6"	1,709.774
Dry Lake, 5.2 miles south of, 30 feet south of road, in granite boulder 6 inches above ground; aluminum tablet stamped "2038 B 1909 7"	2,038.409

	Feet.
Dry Lake, 9 miles south of, 1,000 feet south of series of small washes, in bunch grass plot 25 feet east of road, in boulder, 6 inches above ground; aluminum tablet stamped "2348 B 1909 8"	2,346.265
Dry Lake, 11.6 miles south of, 50 feet east of road, on west bank of wash, in boulder 12 inches above ground; aluminum tablet stamped "2735 B 1909 9"	2,733.334
Dry Lake, 15.5 miles south of, 13.9 miles north of Searchlight, 15 feet east of road, in granite boulder 4 inches above ground; aluminum tablet stamped "2949 B 1909 10"	2,947.327
Searchlight, 11.7 miles north of, east edge of road, in base of yucca tree; spike with aluminum tag stamped "3115"	3,113.17
Searchlight, 10.7 miles north of, in forks of road, at junction of Nelson and Searchlight roads, in granite boulder 3 inches above ground; aluminum tablet stamped "3165 B 1909 11"	3,163.784
Searchlight, 7.2 miles north of, 20 feet west of road, at forks of wash, on north bank of wash, in boulder 6 inches above ground; aluminum tablet stamped "3400 B 1909 12"	3,398.641
Searchlight, 2.2 miles north of, 50 feet east of road, 1,000 feet east of Searchlight mine, in boulder; aluminum tablet stamped "3730 B 1909 13"	3,729.029
Searchlight, 75 feet north of Atchison, Topeka & Santa Fe Ry. station, 2 feet from telephone pole; iron post stamped "3445 B 1909 14"	3,443.785
Searchlight, 0.5 mile west of, south edge of track, opposite milepost 22, in base of sign post; spike with aluminum tag stamped "3421"	3,419.96
Searchlight, 1.6 miles west of, in base of milepost 21; spike with aluminum tag stamped "3405"	3,404.04
Searchlight, 2.6 miles west of, in base of milepost 20; spike with aluminum tag stamped "3398"	3,396.38
Searchlight, 3.6 miles west of, 100 feet west of milepost 19, north edge of railroad right of way; iron post stamped "3430 B 1909 15"	3,429.010
Searchlight, 4.6 miles west of, in base of milepost 18; spike with aluminum tag stamped "3500"	3,499.03

CARSON SINK QUADRANGLE.

[Latitude 39°–40°; longitude 118°–119°.]

From Hazen east along Southern Pacific R. R. to Fallon, thence south and east along highways to Salt Well Junction. (Primary leveling by T. P. Pendleton in 1914.)

Hazen, 1.3 miles east of, road crossing; top of north rail	4,000.6
Hazen, 1.6 miles east of, culvert 289 A; top surface of south end of concrete pier	4,001.77
Hazen, 2.2 miles east of, culvert 289 B, on south end of west abutment; marked "B. M. 4006.88" (U. S. R. S. b. m.)	4,003.46
Hazen, 2.6 miles east of, culvert 290 A, on south end of west abutment; marked "4012.52" (U. S. R. S. b. m.)	4,009.14
Hazen, 3.2 miles east of, road crossing; top of north rail	4,021.2
Hazen, 4.7 miles east of, culvert 292 A, south end of west concrete abutment; top surface (U. S. R. S. b. m. marks not distinguished)	4,012.34
Mahala, at signboard; top of south rail	4,018.4
Mahala, 0.5 mile east of, culvert 293 A, south end of west concrete abutment; top surface (U. S. R. S. b. m. marks not distinguished)	4,018.13

	Feet.
Mahala, 0.9 mile east of, concrete culvert 293 B; top surface of north end	4,013.10
Mahala, 2 miles east of, steel girder bridge 294 A, south end of west concrete abutment; top surface (U. S. R. S. b. m. marks not distinguished)	4,033.50
Mahala, 2.3 miles east of, south end of concrete culvert 295 A, top surface; marked "4028.02" (U. S. R. S. b. m.)	4,024.59
Mahala, 3.2 miles east of, south end of concrete culvert 295 B; top surface	4,015.76
Mahala, 3.7 miles east of, south end of west concrete abutment to culvert 296 A; top surface (U. S. R. S. marks not distinguished)	4,015.88
Mirage, 0.6 mile west of, south end of concrete culvert 296 C; top surface	4,010.70
Mirage, at signboard; top of south rail	4,011.7
Mirage, 0.4 mile east of, south end of west concrete abutment of culvert 297 B, top surface; marked "4013.68" (U. S. R. S. b. m.)	4,010.28
Mirage, 1 mile east of, south end of west concrete abutment of culvert 298 B, top surface; marked "4012.24" (U. S. R. S. b. m.)	4,008.85
Mirage, 1.6 miles east of, culvert 299 A, south end of west concrete abutment; top surface, marked "4002.21" (U. S. R. S. b. m)	3,998.76
Mirage, 2.7 miles east of, culvert 300 A, south end of west concrete abutment; top surface	3,982.56
Mirage, 3 miles east of, culvert 300 D, north end of west concrete abutment; top surface, marked "3986.24" (U. S. R. S. b. m.)	3,982.78
Fallon, 1.8 miles west of, Carson River crossing, steel-truss bridge 301 C, south side of west concrete abutment; upper surface	3,982.85
Fallon, 1.4 miles west of, Government Canal crossing, steel truss bridge 301 F, south end of west concrete abutment; top surface marked "3981.20" (U. S. R. S. b. m.)	3,977.77
Fallon, 0.9 mile west of, culvert 302 C, south end of west concrete abutment; top surface, marked "3971.06"	3,967.62
Fallon, 120 feet southwest of Southern Pacific Co's depot, on southeast corner of street intersection, on fire hydrant; period after word "Corey"	3,961.47
Fallon, 1,200 feet east of depot, culvert 303 A, north end of east concrete abutment; top surface	3,960.98
Fallon, 1.2 miles south of, 500 feet north of U. S. Experiment Farm, 200 feet east of road, on concrete wall of gate in canal; aluminum tablet stamped "A 1914"	3,963.336
Fallon, 2.3 miles south of, 55 feet south of road intersection, west side of road, in base of telephone pole; spike	3,960.06
Fallon, 3.3 miles south of, at T road to east, on east side of telephone pole at bend in line; spike	3,957.70
Fallon, 4.3 miles south of, at T road to east, on east side of road, in telephone pole; spike	3,950.34
Fallon, 4.9 miles south of, 4 feet south of Beckstead's store, about 35 feet southeast of large cottonwood tree; iron post stamped "3953.357 S.P." (Reclamation Service elevation 3953.357)	3,949.256
Fallon, 5 miles south by 1 mile east of, southeast corner of road intersection, in root of large cottonwood tree; spike	3,938.30
Fallon, 5 miles south by 2.1 miles east of, 245 feet east of William Ernst's residence, north side of road, near base of more easterly of two cottonwood trees; spike	3,932.42

	Feet.
Fallon, 5 miles south by 3.1 miles east of, at T road to north, in base of telephone pole east of road; spike	3,925.98
Fallon, 5 miles south by 4.2 miles east of, at T road to north, in base of post common to two fence lines; spike	3,921.72
Fallon, 5 miles south by 5.3 miles east of, north side of road, in cross bar on old gate in ditch; spike	3,924.05
Grimes's ranch, south side of road, at northwest corner of fence inclosing residence; iron post stamped "3927.8 S.P." (Reclamation Service elevation 3927.325)	3,922.859
Junction, in center of forks of road, 5 feet west of signboard reading "Regent 26 miles"; iron post stamped "3937 1908"	3,929.750
Salt Well, at northeast corner of Petersen's road house; iron post stamped "3964"	3,956.831
From point 10 miles east of Schurz to Rawhide. (Primary leveling by T. A. Green in 1907–8.)	
Schurz, 10 miles east and 4.69 miles north of, at summit, 10 feet west of road, in center of divide; iron post stamped "4624"	4,616.988
Rawhide, 10 miles northwest of, 8.25 miles west of Fallon-Rawhide road, 15 feet east of road, on west side of brown rocky butte about 100 feet high; iron post stamped "4453"	4,445.718
Rawhide, 5 miles northwest of, 3.15 miles west of Fallon-Rawhide road, 20 feet west of road, on west side of sandy wash; iron post stamped "4921"	4,914.073
Rawhide, 1.03 miles north of, 400 feet south of divide, 90 feet east of road, in base of square post marked "Angle Corner-Scalded Cat 1 and 2"; spike marked "5276"	5,268.72
Rawhide, at southeast corner of Physicians and Surgeons Hospital, on south side; iron post stamped "5152"	5,145.052
From point near Eagleville north via Bermond stage station and Mountain Well to Stillwater.	
Monte Cristo, 3.38 miles north of, 5 feet north of road, at point where road makes sharp bend to northwest, in large granite boulder; aluminum tablet stamped "4936"	4,928.795
Eagleville, 3.03 miles north of, 10 feet east of road; iron post stamped "5370"	5,362.738
Eagleville, 8.08 miles north of, 30 feet east of road, on east side of wash, in oblong rock; aluminum tablet stamped "4710"	4,703.093
Bermond, 7.55 miles south of, at junction with road running southwest to Frenchman's Spring, 30 feet west of forks, 50 feet northwest of signboard reading "Green Springs"; in rock, aluminum tablet stamped "4397"	4,389.491
Bermond, 2.46 miles south of, 20 feet west of road, on old dry lake bed; iron post stamped "4155"	4,147.558
Bermond, stage station, in northwest corner of cistern; top of rail, marked "4163"	4,155.393
Bermond, 2.55 miles northwest of, 30 feet east of road; iron post stamped "4249"	4,241.974
Bermond, 7.64 miles northwest of, 40 feet east of road, in large oblong boulder; aluminum tablet stamped "4611"	4,603.399
Mountain Well, 2.98 miles southeast of, 50 feet east of road, 25 feet west of wash, 300 feet south of point where road parts to go up wash and over hill, in limestone rock; aluminum tablet stamped "5312"	5,304.591

	Feet.
Mountain Well, 2.04 miles west of, 40 feet north of road, on south side of wash, in large brown boulder 4 feet by 3 feet by 3 feet; aluminum tablet stamped "5051"	5,043.377
Stillwater, 6.85 miles east of, on west side of road, in large black boulder; aluminum tablet stamped "4341"	4,333.709
Stillwater, 1.69 miles east of, at junction with road running northeast, at signboard reading "Lovelock 65 miles—Wonder 40 miles." 5 feet south of signboard; iron post stamped "3906"	3,899.113
Stillwater, in southeast corner of hotel kept by Charles P. Cirac, on east side; aluminum tablet stamped "3912"	3,904.412
Stillwater, Cirac's hotel, at front entry; top of stone doorsill	3,902.11

From Stillwater west toward Fallon (double-spur line).[1]

Stillwater, 1.66 miles west of, 1,000 feet west of Dalton's house, 40 feet north of road, 50 feet west of second-class road running north; iron post stamped "3904.755—Feb. 20, 1908" (Reclamation Service elevation 3904.755 feet)	3,900.790
Stillwater, 2.66 miles southwest of, 40 feet west of road; point on top of wooden hub driven in ground; marked "3909.28" (Reclamation Service elevation 3909.28 feet)	3,905.57
Stillwater, 3.77 miles southwest of, 100 feet north of road; point on top of wooden hub driven in ground; marked "3911.96" (Reclamation Service elevation 3911.96 feet)	3,908.09
Stillwater, 6.59 miles southwest of, 40 feet north of road, 40 feet south of house; iron post stamped "3921.6 datum S. P." (Reclamation Service elevation 3921.6 feet)	3,917.681

From point near Schurz northeast via Allen Spring, Junction, and Salt Well to Stillwater.

Schurz, 5.6 miles northeast of, 10 feet north of road; iron post stamped "4340"	4,333.313
Schurz, 10.58 miles northeast of, at top of divide, 10 feet east of road; iron post stamped "4798"	4,790.674
Allen Spring, 5.05 miles south of, at junction with road running northeast, 30 feet east of forks, in black rock; aluminum tablet stamped "4134"	4,126.608
Allen Spring, at forks of road, 30 feet west of road junction; iron post stamped "4017"	4,009.362
Allen Spring, 5.79 miles northeast of, 30 feet west of road, 250 feet south of point where road goes up to rim of old lake; iron post stamped "3936"	3,928.574
Junction, 5 miles south of, about 2 miles west of main road to Schurz, 15 feet east of road; iron post stamped "3916"	3,908.293
Junction, in center of forks of road, 5 feet west of signboard reading "Regent 26 miles"; iron post stamped "3937"	3,929.750
Salt Well, at northeast corner of Petersen's road house; iron post stamped "3964"	3,956.831
Stillwater, 10.12 miles south of, 30 feet east of road; iron post stamped "4038"	4,030.334
Stillwater, 5.1 miles south of, 30 feet west of road, about 0.25 mile north of where road joins sandy road running north to Stillwater; iron post stamped "3953"	3,945.935

[1] Bench marks set by the United States Reclamation Service.

From Bermond stage station east and north to IXL Canyon, thence west to Cox Canyon and south to Stillwater.

	Feet.
Fairview, 1 mile north of, at forks of road, 30 feet southeast of road junction; iron post stamped "4431"	4,423.253
Fairview, 5.37 miles northeast of, at junction of roads running northeast to Wonder, northwest to IXL, and southwest to Bermond, 30 feet southeast of four corners; iron post stamped "4250"	4,242.815
Fairview, 10.24 miles north of, at junction with road running southwest to Mountain Well Road, 10 feet east of road junction; iron post stamped "4091"	4,083.995
IXL Canyon signboard, 13.05 miles south of, 10 feet east of road, 800 feet north of dim road running east; iron post stamped "3902"	3,894.429
IXL Canyon signboard, 7.95 miles south of, 25 feet east of road, 200 feet south of dim road running northeast; iron post stamped "3756"	3,749.053
IXL Canyon signboard, 2.87 miles south of, 10 feet east of road; iron post stamped "3591"	3,583.860
IXL Canyon signboard, at forks of road, 50 feet south of, on west side of road, in granite rock; chiseled hole; rock marked "3532"	3,524.25
IXL Canyon signboard, 2.1 miles west of, 30 feet north of road, 300 feet east of mouth of canyon, in large flat granite boulder; aluminum tablet stamped "4023"	4,015.810
IXL Canyon and Cox Canyon, summit at head of, 125 feet north of trail, on top of divide, in limestone rock; aluminum tablet stamped "6873"	6,865.531
Cox Canyon, 600 feet west of Wilson's and Kelker's houses, 40 feet south of road, in large limestone boulder; aluminum tablet stamped "5288"	5,281.023
Cox Canyon, at forks of Stillwater-Shady Run road, 5 feet north of signboard, at northwest angle of forks; iron post stamped "3978"	3,970.339
Desert Well, 70 feet southwest of, on west side of road, iron post stamped "3939"	3,931.912
Desert Well, 5.03 miles southwest of, 60 feet west of road; iron post stamped "3893"	3,886.053
Stillwater, 3.67 miles northeast of, 50 feet southeast of crossroads; iron post stamped "3897.9 S. P." (Reclamation Service bench mark)	3,893.680

CEDAR PASS QUADRANGLE.

[Latitude 41°–41° 30′; longitude 114° 30′–115°.]

From Valley Pass west along Southern Pacific R. R. to Wells. (Precise leveling by the U. S. Coast and Geodetic Survey.)

Valley Pass, 1 meter south of first telegraph pole east of station, about 15 meters south of track and within the turning wye, in top of stone post; bottom of square hole (C. & G. S. b. m. Z_8)	6,070.237
Valley Pass, near, about 3.7 telegraph poles east of milepole 640, 75 meters west of crossing, 29.3 meters north of track, 1.4 meters south of north line fence, on top of iron post; red-metal disk (C. & G. S. b. m. A_4)	6,075.431

	Feet.
Icarus, 44 meters north of milepole 638, 60 meters north of main line of railway, 1.2 meters south of north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. B_4)	6,099.870
Icarus, near, 50 meters west of milepole 365, on east slope of hill at east end of deep cut, 28.9 meters north of track, about on level with track near set-off stand, 0.9 meter south of north line fence; red-metal disk on top of iron post (C. & G. S. b. m. C_4)	6,152.304
Pequop, in front of section hands' quarters, 1 meter north of milepole 633, 10 meters west of section car house No. 44, in top of stone post; bottom of square hole (C. & G. S. b. m. D_4)	6,145.568
Fenelon, about 30 meters east of railroad station (628.4), 59.5 meters north of main track, in top of stone post; bottom of square hole (C. & G. S. b. m. E_4)	6,155.194
Holborn, near, 2 telegraph poles east of milepole 627, 28 meters north of track, 0.9 meter south of north line fence, red-metal disk on top of iron post (C. & G. S. b. m. F_4)	6,125.293
Holborn, 40 meters east of section car house No. 43, 17.1 meters north of main track, 0.8 meter north of white telegraph pole which is 2 telegraph poles east of station sign, in top of stone post; bottom of square hole (C. & G. S. b. m. G_4)	6,105.030
Anthony, directly opposite station sign, 6 telegraph poles west of water tank, 29.9 meters south of main track, 1.2 meters north of south line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. H_4)	6,123.626
Moor, 10 meters west of station, 1 meter north of white telegraph pole, 15 meters north of main track and about 1.5 meters below it, in top of stone post; bottom of square hole (C. & G. S. b. m. I_4)	6,160.709
Cedar, 35 meters east of station sign, about 2 telegraph poles east and 0.7 meter north of milepole 614, 16.8 meters north of track, in top of stone post; bottom of square hole (C. & G. S. b. m. J_4)	5,970.037
Kaw, 1 meter north of milepole 612, 10.5 meters north of main track, in top of stone post; bottom of square hole (C. & G. S. b. m. K_4)	5,830.480
Wells, 2 miles west of, 0.9 meter north of milepole 610, 10 meters north of track; in stone post; bottom of square hole (C. & G. S. b. m. L_4)	5,709.221
Wells, 1 meter north of telegraph pole opposite east end of station, 12 meters north of main track, in top of stone post; bottom of square hole (C. & G. S. b. m. M_4)	5,628.145
Wells, in western one of two northernmost concrete pillars under railroad water tank; red-metal disk (C. & G. S. b. m. N_4)	5,627.932
Wells, near, on east slope of hill at east end of deep cut, 3 telegraph poles west of milepole 607, 65.5 meters north of track, 1.3 meters south of north line fence, on top of iron post; red-metal disk (C. & G. S. b. m. O_4)	5,616.465

COBRE QUADRANGLE.

[Latitude 41°–41° 30′; longitude 114°–114° 30′.]

From Tecoma southwest along Southern Pacific R. R. to Cobre. (Precise leveling by the U. S. Coast and Geodetic Survey.)

Tecoma, near, in north side of granite post which marks the boundary between Utah and Nevada, 19.2 meters south of eastbound railroad track; red-metal disk (C. & G. S .b. m. I_3)	4,782.887

	Feet.
Tecoma, 0.4 mile east of station, 6 telegraph poles east of milepole 670, opposite east post of rail rack, 15.3 meters south of eastbound track, 0.8 meter north of telegraph pole, in top of stone post; bottom of square hole (C. & G. S. b. m. J_3)	4,814.039
Tecoma, near, 73.2 meters south of milepole 668, 59.8 meters south of eastbound main track, 1.3 meters north of south line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. K_3)	4,812.605
Tecoma, near, 47 meters north of milepole 666, 56.3 meters north of westbound track, 0.9 meter south of north line fence; red-metal disk on top of iron post (C. & G. S. b. m. L_3)	4,820.108
Akbar, 9 telegraph poles east of milepost 665 with two semaphore towers in range, 60.2 meters south of main track, 1 meter north of south line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. M_3)	4,827.707
Montello, 1 mile east of, 47 meters north of milepole 664, 56.5 meters north of eastbound line of railroad, 100 meters east of cattle guard, 1 meter south of north line fence, red-metal disk on top of iron post (C. & G. S. b. m. N_3)	4,846.158
Montello, western one of two northernmost stone pillars under water tank, in top surface, red-metal disk (C. & G. S. b. m. O_3)	4,874.560
Montello, in southeast corner of grass plat in front of Southern Pacific Hotel, about 1 meter from corner, in top of stone post; bottom of square hole (C. & G. S. b. m. P_3)	4,874.547
Banvard, in line with west side of section house, 60 meters north of eastbound track of railroad, 1.3 meters south of north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. Q_3)	4,976.079
Noble, directly opposite station sign, on northwest side of track, at rear of signal tender's dwelling, about 1 meter southeast of northwest line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. R_3)	5,117.398
Ullin, directly opposite station sign, in a fence corner 59.2 meters northwest of eastbound line of railroad, 7 telegraph poles northeast of milepole 656, in top of stone post; bottom of square hole (C. & G. S. b. m. S_3)	5,262.526
Wright, 43 meters northwest of milepost 654, 57.7 meters northwest of track, 1.2 meters southeast of northwest line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. T_3)	5,410.845
Loray, opposite yellow dwelling house of section foreman, 1 telegraph pole west of section-car house 46, 6 telegraph poles east of milepole 652, 60.3 meters north of main track, 0.9 meter south of north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. U_3)	5,596.990
Omar, 0.6 meter north of eleventh telegraph pole east of milepost 647, 5.6 meters north of station sign, 15 meters north of main track, in top of stone post; bottom of square hole (C. & G. S. b. m. V_3)	5,843.883
Cobre, 0.9 meter northeast of fourth telegraph pole northwest of railroad station, 14.2 meters northeast of main track, about 100 meters northwest of freight station, in top of stone post; bottom of square hole (C. & G. S. b. m. W_3)	5,922.659
Cobre, 0.9 meter northeast of milepole 645, 14.4 meters northeast of railroad and about 1 meter below the track, in top of iron post; red-metal disk (C. & G. S. b. m. X_3)	5,937.678
Cobre, near, 7 telegraph poles east of milepost 643, in top of north head wall of culvert No. 643A; top of iron spike (C. & G. S. b. m. Y_3)	6,007.370

DEETH QUADRANGLE.

[Latitude 41°–41° 30′; longitude 115°–115° 30′.]

From Wells west along Southern Pacific R. R. to Natchez. (Precise leveling by the U. S. Coast and Geodetic Survey.)

	Feet.
Wells, near, at milepole 606, 1 meter south of north line fence, 27.7 meters north of track and about 1.5 meters below it, on top of iron post, red-metal disk (C. & G. S. b. m. P_4)	5,607.856
Alazon, 4.4 telegraph poles east of Southern Pacific R. R. milepole 604, 0.25 mile west of station sign, 28 meters north of track, 32.4 meters north of Western Pacific track, and 0.9 meter south of its north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. Q_4)	5,594.838
Tulasco, near, on Southern Pacific R. R., near Starr on Western Pacific Ry., at Southern Pacific milepole 600, 4.5 telegraph poles west of Western Pacific milepole 709, 29.1 meters south of Western Pacific track, 33.5 meters south of Southern Pacific track, 1.3 meters north of south line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. R_4)	5,503.263
Nardi, near, 0.5 mile west of west end of siding, 12 telegraph poles west of Southern Pacific milepole 595, 18 telegraph poles west of Western Pacific milepole 704, 75 meters west of signal tower 5948, and 27.9 meters north of Southern Pacific track, 32.3 meters north of Western Pacific track and 0.9 meter south of its north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. S_4)	5,395.124
Deeth, about 1 mile east of, about 200 meters west of point where Southern Pacific R. R. begins to diverge from Western Pacific Ry., 3 telegraph poles west of Southern Pacific milepole 592, 7 telegraph poles west of Western Pacific milepole 701, 4.3 meters south of Southern Pacific track, 5.6 meters north of Western Pacific track, on top of iron post; red-metal disk (C. & G. S. b. m. T_4)	5,352.069
Deeth, 0.5 mile west of Southern Pacific R. R. station, 35 meters east of west end of siding, 0.7 meter south of first telegraph pole east of signal tower 590.5, 15.5 meters south of main track, on top of iron post; red-metal disk (C. & G. S. b. m. U_4)	5,334.707
Natchez, 4 telegraph poles east of milepole 587, in range with signal towers 5871 and 5872, 17.4 meters south of Southern Pacific R. R. track, 1.7 meters south of south line fence, outside right of way, on top of iron post; red-metal disk (C. & G. S. b. m. V_4)	5,295.721

ELKO QUADRANGLE.

[Latitude 40° 30′–41°; longitude 115° 30′–116°.]

From Elburz southwest along Southern Pacific R. R. to Vivian. (Precise leveling by the U. S. Coast and Geodetic Survey.)

Elburz, 2.8 meters north of milepole 575, 18.9 meters north of track 20 meters west of section car house No. 38, in top of stone post; bottom of square hole (C. & G. S. b. m. X_4)	5,204.645
Elburz, near, in face of rock at east end of tunnel No. 5, north of track and about 0.6 meter above it; red-metal disk (C. & G. S. b. m. Y_4)	5,184.698
Ryndon, 100 meters east of station, 12 meters south of track, 10 meters north of Western Pacific Ry. track, 1 meter west of a telegraph pole, in top of stone post; bottom of square hole (C. & G. S. b. m. Z_4)	5,158.467

	Feet.
Ryndon, near, in top surface of west abutment of bridge No. 25, over Humboldt River, 300 meters east of tunnel No. 3, south of track; red-metal disk (C. & G. S. b. m. A_5)	5,153.080
Osino, 50.7 meters east of section car house No. 36, 0.9 meter east of telegraph pole, 30.3 meters north of main track, in top of stone post; bottom of square hole (C. & G. S. b. m. B_5)	5,133.717
Coin, 6.8 meters north of Southern Pacific R. R. milepost 562, 21 meters north of main track, about 0.25 mile northeast of Western Pacific milepost 670, in top of stone post; bottom of square hole (C. & G. S. b. m. C_5)	5,091.519
Elko, about 2 miles east of, 11.8 meters north of milepole 560, 23.5 meters north of Southern Pacific R. R. track, 1.5 meters south of fence, on top of iron post; red-metal disk (C. & G. S. b. m. D_5)	5,075.013
Elko, about 0.75 mile east of, 8 telegraph poles east of milepole 558, 58.8 meters north of Southern Pacific R. R. track, 1.1 meters south of the north line fence, and about 100 meters east of cattle guard, in top of stone post; bottom of square hole (C. & G. S. b. m. E_5)	5,079.298
Elko, in top surface at west end of lower step leading to south entrance of Elko County courthouse; aluminum tablet stamped U. S. G. S. (C. & G. S. b. m. F_5)	5,066.860
Elko, 50 meters east of signal tower 567.3 at west end of Southern Pacific R. R. siding, 0.5 mile west of railroad station, 12.7 meters north of track and 1.3 meters north of a telegraph pole, in top of stone post; bottom of square hole (C. & G. S. b. m. G_5)	5,055.288
Elko, about 3 miles west of, 1.2 meters north of milepole 555, 15.5 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. H_5)	5,040.731
Avenel, near, 1.2 meters north of milepole 553 and 15.6 meters north of track, on top of stone post; red-metal disk (C. & G. S. b. m. I_5)	5,030.607
Avenel, 75 meters east of station sign, 30 meters west of crossing, 58.7 meters south of main track, 2.6 meters north of fence, in top of stone post; bottom of square hole (C. & G. S. b. m. J_5)	5,021.296
Avenel, near, 49 meters north of milepole 550, 64 meters north of track, 1.9 meters south of north line fence, on top of iron post; red-metal disk (C. & G. S. b. m. K_5)	5,009.691
Moleen, near, 34 meters north of milepole 548, 48.3 meters north of track, 1.3 meters sou. of north line fence, on top of iron post; red-metal disk (C. & G. S. b. m. L_5)	5,008.382
Moleen, 3 telegraph poles west of milepole 546, opposite station sign, 1 meter north of south line fence, 61.3 meters south of main track, in top of stone post; bottom of square hole (C. & G. S. b. m. M_5)	4,976.266
Moleen, near, in top surface of west abutment of railroad bridge No. 24 over Humboldt River, north of track; red-metal disk (C, & G. S. b. m. N_5)	4,972.674
Tonka, near, at mileage distance 542.6, in top surface of west abutment of bridge No. 21, over Humboldt River, south of track; top of an iron pin (C. & G. S. b. m. O_5)	4,967.831
Tonka, 3.1 meters north of milepole 542, 22.4 meters north of main track, 39.2 meters south of north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. P_5)	4,962.766
Tonka, near, in top surface of west abutment of railroad bridge No. 20 over Humboldt River, south of track; top of iron bolt (C. & G. S. b. m. Q_5)	4,956.158

	Feet.
Vivian, near, in top surface of east abutment of bridge No. 19 over Humboldt River, south of track; top of iron bolt (C. & G. S. b. m. R_8)	4,951.165

From Elko northwest toward Weiland 13.6 miles (part of single spur line). (Primary leveling by General Land Office in 1911–12. Elevations unchecked and therefore unreliable.)

Elko, in front of Southern Pacific R. R. depot; top of north rail	5,059.7
Elko, west end of county courthouse, in lower step; aluminum tablet stamped "5066"	5,066.860
Elko, in front of Western Pacific Ry. depot; top of north rail	5,056.0
Elko, 0.15 mile north of, under south side of Elko water tank, on concrete block; cross	5,063.00
Elko, 0.79 mile north of, southwest corner of bridge on Elko-Tuscarora road, in top of post; nail	5,123.44
Elko, 1.2 miles north of, on Elko-Tuscarora road, southeast corner of chicken yard, in fence post; nail	5,177.33
Elko, 1.5 miles north of, 20 feet west of road; on rock	5,194.76
Elko, 2.62 miles north of, 30 feet west of Elko-Tuscarora road, in 2-inch stake; nail	5,292.58
Elko, 3.14 miles north of, 60 feet east of Elko-Tuscarora road, 1 foot from blazed telephone pole, in stake; nail	5,357.25
Elko, 3.1 miles north of, 60 feet east of road; standard bench-mark post, marked "5364"	5,364.612
Elko, 4.2 miles north of, 10 feet east of Elko-Tuscarora road, near spring, in 2-inch stake; nail	5,488.61
Elko, 5.05 miles north of, 10 feet east of Elko-Tuscarora road, in 2-inch stake; nail	5,631.28
Elko, 5.9 miles north of, in ditch 10 feet west of Elko-Tuscarora road, in 2-inch stake; nail	5,807.48
Elko, 6.2 miles north of, 30 feet east of Elko-Tuscarora road, in 2-inch stake; nail	5,851.47
Elko, 6.5 miles north of, 15 feet west of Elko-Tuscarora road, on top of ridge; standard bench-mark post, marked "6009"	6,009.911
Elko, 6.7 miles north of, on low hill 25 feet east of Elko-Tuscarora road, in 2-inch stake; nail	6,034.75
Elko, 7.12 miles north of, 200 feet north of spring and 3 feet east of Elko-Tuscarora road, in 2-inch stake; nail	6,067.89
Elko, 8.18 miles north of, 5 feet west of Elko-Tuscarora road, in 2-inch stake; nail	6,462.32
Elko, 9.01 miles north of, 10 feet west of Elko-Tuscarora road, 5 feet from telephone pole, on top of ridge; standard bench-mark post, marked "6755"	6,756.336
Elko, 10.07 miles north of, 10 feet east of road, in 2-inch stake; nail	6,765.07
Elko, 10.5 miles north of, in curve of road, 200 feet north of point of rock, 50 feet west of road; top of rock	6,650.07
Elko, 11.5 miles north of, 20 feet east of road, on low ridge, in 2-inch stake; nail	6,575.68
Elko, 12.09 miles north of, on brow of low ridge, 20 feet east of road; standard bench-mark post	6,489.026
Elko, 12.5 miles north of, 5 feet east of drain, in 2-inch stake; nail	6,389.9

ELY SPECIAL QUADRANGLE.

[Latitude 39° 14′–39° 18′; longitude 114° 53′–115° 02′ 30″.]

Railroad datum, not 1912 adjustment. The leveling was done in 1906 by Fred McLaughlin.

From Ely to Lane City.

	Feet.
Ely, in north face of new courthouse, in east pillar of stone steps; aluminum tablet stamped "6422 R. R."	6,421.749
Ely, 3 miles west of, 300 feet north of Watsons Spring, and 150 feet north of Siliman's house, in large rock; aluminum tablet stamped "6596"	6,595.845
Lane City, in base of flagpole; spike	6,553.808

From Lane City to point 1 mile south of Copper Flat.

Ely, 6 miles west of, 30 feet west of road, in granite rock; aluminum tablet stamped "6766"	6,765.762
Copper Flat, 190 feet northeast of concrete reservoir, 175 feet north of southeast corner post of Star claim, bears S. 17° 23′ E., 1,060 feet, from corner of secs. 9, 10, 15, and 16, T. 16 N., R. 62 E., in concrete pier 18 inches square standing 1 foot above ground; aluminum tablet stamped "7169"	7,169.325

FURNACE CREEK QUADRANGLE.

[Latitude 36°–37°; longitude 116°–117°.]

From Pioneer southeast along Las Vegas & Tonopah R. R. to Amargosa. (Precise leveling by U. S. Coast and Geodetic Survey.)

Pioneer, 3 miles south of, 1 telegraph pole south of milepole 146, 10 meters west of Bullfrog Goldfield R. R. tracks, on the railroad right of way, opposite a farm house 400 meters west of tracks; red-metal disk in top of stone post (C. & G. S. b. m. J_{16})	3,679.648
Hot Springs, 0.75 mile south of, 10 meters west of milepole 149, 20 meters west of Bullfrog Goldfield R. R.; red-metal disk in top of stone post (C. & G. S. b. m. K_{16})	3,528.143
Beatty, 2 miles north of, 3 meters south of milepole 152, 15 meters west of Bullfrog Goldfield R. R. tracks, 50 meters south of crossing of road running toward twin farm houses 250 meters east of tracks; red-metal disk in top of stone post (C. & G. S. b. m. L_{16})	3,396.762
Beatty, 100 meters north of station, 50 meters west of crossing of Tonopah & Tidewater R. R., 20 meters south of crossing of road running up town, 0.5 meter east of fence line; red-metal disk in top of stone post (C. & G. S. b. m. M_{16})	3,284.117
Beatty, in ravine, 100 feet south of principal street, 500 feet north of Beatty Ice & Manufacturing Co.'s plant, in ledge; aluminum tablet stamped "31 U. S. G. S." (C. & G. S. b. m. N_{16})	3,307.831
Beatty, 2 miles south of, 0.5 mile south of junction of Las Vegas & Tonopah R. R. and Tonopah & Tidewater R. R., 11 telegraph poles and 25 meters north of milepole 116, 15 meters west of Las Vegas & Tonopah R. R. tracks; red-metal disk in top of stone post (C. & G. S. b. m. O_{16})	3,167.946
Beatty, 5 miles south of, 20 feet north of milepost 113, iron post stamped "3002 U. S. G. S." (C. & G. S. b. m. P_{16})	3,000.706

	Feet.
Beatty, 8 miles south of, 10 feet east of milepost 110; iron post stamped "2865 U. S. G. S." (C. & G. S. b. m. Q_{16})	2,863.331
Beatty, 11 miles south of, 10 feet north of milepole 107; iron post stamped "2755 U. S. G. S." (C. & G. S. b. m. R_{16})	2,753.013
Beatty, 14 miles south of, 10 feet north of milepole 104; iron post stamped "2664 U. S. G. S." (C. & G. S. b. m. S_{16})	2,662.468
Beatty, 17 miles south of, 10 feet north of milepole 101; iron post stamped "2575 U. S. G. S." (C. & G. S. b. m. T_{16})	2,573.837
Rosewell, 2 meters east of tracks, in south end of west footing of Las Vegas & Tonopah R. R. water tank; center of outlined square (C. & G. S. b. m. U_{16})	2,589.532
Rosewell, 2 miles southeast of, 10 feet northeast of milepole 98, iron post stamped "2587 U. S. G. S." (C. & G. S. b. m. V_{16})	2,585.149
Rosewell, 3 miles southeast of, 15 meters west of Las Vegas & Tonopah R. R. tracks, 10 meters north of milepole 97; red-metal disk in top of stone post (C. & G. S. b. m. W_{16})	2,565.845
Rosewell, 5 miles southeast of, 10 feet north of milepost 95; iron post stamped "2582 U. S. G. S." (C. & G. S. b. m. X_{16})	2,581.097
Rosewell, 8 miles southeast of, 10 feet north of milepost 92; iron post stamped "2648 U. S. G. S." (C. & G. S. b. m. Y_{16})	2,646.304
Rosewell, 12 miles southeast of, 10 feet east of milepole 88; iron post stamped "2658 U. S. G. S." (C. & G. S. b. m. Z_{16})	2,656.947
Amargosa, 11.5 miles northwest of, 3 meters west of milepole 86, 15 meters south of Las Vegas & Tonopah R. R. tracks; red-metal disk in top of stone post (C. & G. S. b. m. A_{17})	2,794.643
Amargosa, 9.6 miles west of, 210 feet north of milepole 84; iron post stamped "2843 U. S. G. S." (C. & G. S. b. m. B_{17})	2,842.229
Amargosa, 5.6 miles west of, 10 feet north of milepole 80; iron post stamped "2762 U. S. G. S." (C. & G. S. b. m. C_{17})	2,759.762
Amargosa, 3.5 miles west of, 5 meters west of milepole 78, 15 meters south of Las Vegas & Tonopah R. R. tracks, red-metal disk on top of stone post (C. & G. S. b. m. D_{17})	2,756.828
Amargosa, 1.6 miles west of, 10 feet north of milepole 76, iron post stamped "2765 U. S. G. S." (C. & G. S. b. m. E_{17})	2,763.754
Amargosa, 150 meters east of station and 10 meters north of Las Vegas & Tonopah R. R. tracks, in southwest footing of well derrick; red-metal disk (C. & G. S. b. m. F_{17})	2,777.380
Amargosa, about 2.4 miles east of, 10 feet north of milepole 72; iron post stamped "2840 U. S. G. S." (C. & G. S. b. m. G_{17})	2,838.764
Amargosa, about 4.4 miles east of, 10 meters south of milepole 70, 25 meters south of Las Vegas & Tonopah R. R. tracks; red-metal disk on top of stone post (C. & G. S. b. m. H_{17})	2,896.812
Amargosa, about 6.4 miles east of, 10 feet north of milepole 68; iron post stamped "3034 U. S. G. S." (C. & G. S. b. m. I_{17})	3,032.678
Amargosa, about 10.4 miles east of, 10 feet north of milepole 64; iron post stamped "3320 U. S. G. S." (C. & G. S. b. m. J_{17})	3,318.491

From Pahrump northwest along road to point on State line west of Kings Spring. (Primary leveling by L. F. Biggs in 1907.)

Pahrump, 5.8 miles west of, 600 feet north of Sixmile Spring, west point of rock hill at entrance of cave, in ledge; aluminum tablet stamped "2566 B 1907"	2,564.587
Kings Spring, 6.6 miles east of, 20 feet south of road, in ledge; aluminum tablet stamped "2503 B 1907"	2,502.296

	Feet.
Kings Spring. 150 feet north of, in ledge; aluminum tablet stamped "2315 B 1907"	2,314.044
Kings Spring. 4.4 miles west of, at junction of roads; iron post stamped "2172 B 1907"	2,171.985

From Kings Spring north toward Amargosa.

Amargosa, 12.3 miles south of, 200 feet north of road, in ledge; aluminum tablet stamped "2488 B 1907"	2,487.059
Amargosa, 8 miles south of, in bed of dry lake, 40 feet north of road; iron post stamped "2331 B 1907"	2,329.387

From point on State line near Daylight Springs, Cal., northeast along road to Bullfrog.

Bullfrog, 4.6 miles south of, 20 feet east of road; iron post stamped "3560 B 1907"	3,568.486
Bullfrog, 1.5 miles south of, 20 feet east of road; iron post stamped "3472 B 1907"	3,480.185
Bullfrog, southeast corner of Senator Stewart's land office; iron post stamped "3575 100"	3,569.734

From Bullfrog southeast along Las Vegas & Tonopah R. R. via Amargosa to point 14.4 miles east of Amargosa.

Bullfrog, 4.6 miles southeast of, 1,000 feet southeast of South Bullfrog saloon, at junction of road; iron post stamped "3139 B 1907"	3,137.262
Amargosa, 14.4 miles east of, 10 feet north of milepost 60; iron post stamped "3628 B 1907"	3,627.171

From point 2.2 miles northwest of Currie Well (Mud Springs) southeast to Bullfrog. (Primary leveling by Ress Philips in 1905.)

Mud Springs, 2.2 miles north of, 30 feet east of road, on south side of deep ravine; iron post stamped "25"	4,392.499
Mud Springs, at stage station, 3 feet north of northeast corner of office; iron post stamped "26"	4,399.499
Mud Springs, 3 miles south of, on summit, 50 feet east of road, 12 feet south of telephone pole; iron post stamped "27"	4,638.730
Original, 0.5 mile southeast of, at forks of roads on small ridge between two ravines; iron post stamped "28"	3,848.613

From Bullfrog southeast 1.6 miles, thence northeast to Beatty.

Beatty, 1.5 miles west of, 800 feet east of Beatty-Bullfrog and Beatty-Rhyolite roads, 15 feet south of road, in boulder; aluminum tablet stamped "30"	3,544.970
Beatty, in ravine, 100 feet south of principal street, 500 feet north of Beatty Ice & Manufacturing Co.'s plant, in ledge; aluminum tablet stamped "31"	3,307.831

From road fork west of Beatty west via Montgomery-Shoshone mine and Rhyolite to Bullfrog.

Montgomery-Shoshone mine, 100 feet north of boarding house, on summit, 200 feet south of road, in boulder; aluminum tablet stamped "32"	4,034.240
Rhyolite, under high black ledge, at foot of dump of Bullfrog Mining Co.'s tunnel, 30 feet south of bottom of wash; aluminum tablet stamped "33"	3,678.360

From road forks 1.8 miles west of Bullfrog north to Goldbar, thence southwest to point 3.3 miles west of Bullfrog.

	Feet.
Goldbar, 2 miles east of, on summit 1 mile west of Buck Springs, 1.5 miles north of Original, 20 feet south of Goldbar road; iron post stamped "34 114"	4,478.828

GOLD CREEK QUADRANGLE.

[Latitude 41° 30′–42°; longitude 115° 30′–116°.]

Near Mountain City. (Primary unchecked leveling by General Land Office, 1911–12.)

Owyhee, 10.2 miles southeast of, 0.25 mile southwest of reddish-brown rock slide in ravine southwest of high peak, 400 feet northwest of road crossing of small stream, 150 feet southwest of Owyhee Creek, 6 feet southwest of road at summit, by large granite boulders east of road; standard bench-mark post marked "5560"	5,561.603

HALLECK QUADRANGLE.

[Latitude 40° 30′–41°; longitude 115°–115° 30′.]

At Halleck. (Precise leveling by U. S. Coast and Geodetic Survey.)

Halleck, 106 meters north of Southern Pacific R. R. main track, 1.6 meters south of north line fence, in range with east gable of railroad station, about 1.5 meters above track, in top of stone post; bottom of square hole (C. & G. S. b. m. W_4)	5,232.178

HAWTHORNE QUADRANGLE.

[Latitude 38°–39°; longitude 118°–119°.]

From point near Schurz southeast along Southern Pacific R. R. to Redlich. (Precise leveling by U. S. Coast and Geodetic Survey.)

Schurz, about 5.5 miles northwest of, 1 meter south of milepole 349, 8 meters south of Southern Pacific R. R. track; red-metal disk in top of iron post (C. & G. S. b. m. L_{11})	4,326.104
Schurz, about 2.5 miles northwest of, 1 meter south of milepole 382, 7 meters south of track; red-metal disk in top of iron post (C. & G. S. b. m. M_{11})	4,136.360
Schurz, about 1 mile northwest of, 15 meters south of track, in concrete of Government irrigation ditch; red-metal disk (C. & G. S. b. m. N_{11})	4,131.754
Schurz, 200 feet west of station, 60 feet south of railroad, at northeast corner of Nevada Mercantile & Supply Co.'s store; iron post stamped "4130" (store has recently burned to the ground) U. S. G. S. (C. & G. S. b. m. O_{11})	4,122.465
Schurz, 300 feet northwest of slaughterhouse, 20 feet south of road; iron post stamped "4130" (B. M. is now east of slaughterhouse) (C. & G. S. b. m. P_{11})	4,122.488
Schurz, in concrete footing of northwest central pillar of railroad water tank, in top of stone post; bottom of square hole (C. & G. S. b. m. Q_{11})	4,123.082
Schurz, 0.5 miles southeast of, in west end of south side of concrete culvert under track; red-metal disk (C. & G. S. b. m. R_{11})	4,119.381
Schurz, 2 miles southeast of, in south side of concrete culvert 356A under track; copper bolt (C. & G. S. b. m. S_{11})	4,115.412

	Feet.
Schurz, 4 miles southeast of, 10 meters east of milepost 358.8 meters south of track; red-metal disk on top of iron post (C. & G. S. b. m. T_{11})	4,107.981
Schurz, 6 miles southeast of, 3 telegraph poles south of milepole 360, 50 feet west of railroad, 15 feet west of milepole 72; iron post stamped "4113" (C. & G. S. b. m. U_{11})	4,106.334
Schurz, 8 miles southeast of, 3 meters north of milepole 362, 8 meters west of track; red-metal disk on top of iron post (C. & G. S. b. m. V_{11})	4,116.658
Schurz, 11 miles south of, 2 telegraph poles south of milepole 365, 10 meters west of track, 2.41 miles north of (U. S. G. S.) Gillis, 50 feet west of tracks, 10 feet west of milepost 77; iron post stamped "4176" (C. & G. S. b. m. W_{11})	4,168.771
Gillis, 0.3 mile south of, 5 telegraph poles and 40 meters north of milepole 368, 10 meters west of track; red-metal disk on top of iron post (C. & G. S. b. m. X_{11})	4,162.771
Gillis, 2.25 miles south of, 2 telegraph poles south of milepole 370; iron post stamped "4163" (C. & G. S. b. m. Y_{11})	4,155.727
Magnus, 3.5 miles north of, 8 meters west of track, south of large bay on Walker Lake; red-metal disk on top of iron post (C. & G. S. b. m. Z_{11})	4,107.528
Magnus, 2 miles north of, near milepole 375; iron post stamped "4114" (U. S. G. S.) (C. & G. S. b. m. A_{12})	4,106.691
Magnus, 0.5 mile south of, 8 meters east of track near milepole 377½; red-metal disk on top of iron post (C. & G. S. b. m. B_{12})	4,108.164
Thorne, 4.5 miles north of, 2 telegraph poles south of milepole 380, 10 meters east of track; bronze tablet stamped "U. S. G. S. B. M." (C. & G. S. b. m. C_{12})	4,110.162
Thorne, 1.5 miles northwest of, 2 meters south of milepole 383, 12 meters west of track; red-metal disk on top of iron post (C. & G. S. b. m. D_{12})	4,130.927
Thorne, 1 mile west of, 1 meter north of old road to Hawthorne and 10 meters south of new road; iron post marked "4133" (C. & G. S. b. m. E_{12})	4,126.258
Thorne, 4.75 miles southeast of, 3 telegraph poles and 20 meters south of milepole 389, 10 meters west of track; red-metal disk on top of iron post (C. & G. S. b. m. F_{12})	4,424.417
Thorne, 8.5 miles southeast of, 1 telegraph pole south of milepole 393, and 10 meters west of track; iron post marked "4478" (U. S. G. S.) (C. & G. S. b. m. G_{12})	4,471.838
Thorne, 12 miles southeast of, 0.5 mile southeast of milepole 396, 8 meters west of track; red-metal disk on top of iron post (C. & G. S. b. m. H_{12})	4,376.376
Acme, 0.75 mile southeast of milepole 397, in foot plate of southeast pillar of railroad water tank; cross on bolt (C. & G. S. b. m. I_{12})	4,378.535
Luning, 9.15 miles northwest of, near milepole 399, iron post stamped "4399" (U. S. G. S.) (C. & G. S. b. m. J_{12})	4,392.314
Acme, 1 mile southeast of, 1 meter south of milepole 402, 10 meters west of track; red-metal disk on top of iron post (C. &. G. S. b. m. K_{12})	4,456.720
Luning, 3.17 miles northwest of, one telegraph pole south of milepole 405, 10 meters west of track; iron post stamped "4561" (U. S. G. S.) (C. & G. S. b. m. L_{12})	4,554.197

	Feet.
Luning, 40 meters northwest of station, 10 meters west of main track; red-metal disk on top of iron post (C. & G. S. b. m. M_{12})	4,463.846
Mina, 6 miles north of, near milepole 411; iron post stamped "4464 U. S. G. S." (C. & G. S. b. m. N_{12})	4,457.737
New Boston, 1 telegraph pole north of milepole 414, in footing of southeast pillar of railroad water tank; red-metal disk (C. & G. S. b. m. O_{12})	4,497.681
Mina, in southwest corner of parking space near station; iron post stamped "4553 1907" (C. & G. S. b. m. P_{12})	4,546.349
Mina, east of station, in concrete footing of northwest pillar of tall railroad water tank; red-metal disk (C. & G. S. b. m. Q_{12})	4,545.319
Mina, in west face of heavy concrete footing of southwest pillar of small railroad water tank; red-metal disk (C. & G. S. b. m. R_{12})	4,548.652
Mina, 3 miles southeast of, 10 meters south of milepole 420 and 10 meters southwest of track; red-metal disk on top of iron post (C. & G. S. b. m. S_{12})	4,581.392
Tonopah Junction, in area between Y of Tonopah and Goldfield R. R. and Southern Pacific R. R., 20 meters south of log house, 60 meters northwest of Southern Pacific Co.'s water tank; red-metal disk on top of iron post (C. & G. S. b. m. U_{12})	4,408.351
Tonopah, in northeast footing of pillar of Southern Pacific Co.'s water tank, 2 meters west of track; red-metal disk (C. & G. S. b. m. V_{12})	4,410.674
Tonopah Junction, 3 miles south of, 5 meters north of milepole 3; iron post marked "4584" (U. S. G. S.) (C. & G. S. b. m. X_{12})	4,577.491
From Tonopah Junction southwest along Southern Pacific R. R. to Sunland.	
Tonopah Junction, 3.5 miles west of, 8 meters south of track at point where road to Belleville runs alongside railroad embankment; red-metal disk on top of iron post (C. & G. S. b. m. C_{13})	4,798.635
Belleville, in footing of southeast pillar of railroad water tank; red-metal disk (C. & G. S. b. m. F_{13})	5,174.642
Little Summit, 4 miles west of, 10 meters south of Southern Pacific R. R. tracks, 10 meters east of milepole 443; red-metal disk on top of iron post (C. & G. S. b. m. J_{13})	5,670.645
Basalt, 2 miles southwest of, 8 meters south of track, in line with telegraph poles where they cross track on line to Mount Montgomery; red-metal disk on top of iron post (C. & G. S. b. m. M_{13})	6,531.312
From milepost 456 northeast along Southern Pacific R. R. to Tonopah Junction. (Primary leveling by D. H. Watson in 1913.)	
Basalt, 5.5 miles southwest of, opposite milepost 456; top of north rail	6,920.4
Basalt, 4.5 miles west of, on south side of most western loop of railroad climbing to Sunland, 40 feet east of track, 60 feet northeast of milepost 455, in a rock; bronze tablet stamped "6806 1913"	6,798.327
Basalt, 1.08 miles southwest of, at road crossing; top of south rail	6,462.1
Basalt, 0.71 mile southwest of, at road crossing; top of north rail	6.421.4
Basalt, 80 feet south of station, 55 feet west of railroad, 350 feet north of water tank, in rock; bronze tablet stamped "6347 1913" (C. & G. S. b. m. L_{13})	[1] 6,339.390
Basalt, 2.5 miles northwest of, at road crossing; top of rail	6,095.1
Little Summit, 8.3 miles southwest of, 27 feet west of track, 60 feet southwest of milepost 446, in rock; bronze tablet stamped "5901 1913" (C. & G. S. b. m. K_{13})	[1] 5,893.440

[1] Redetermined by U. S. Coast and Geodetic Survey precise leveling, 1915.

	Feet.
Little Summit, 4.25 miles southwest of, opposite milepost 443; top of rail	5,667.8
Little Summit, 3 miles southwest of, 30 feet east of wagon road, 40 feet southeast of crossing, in quartz rock; bronze tablet stamped "5681 1913" (C. & G. S. b. m. I_{13})	[1] 5,673.771
Little Summit, 36 feet northwest of end of spur, 36 feet west of crossing sign, 48 feet west of road crossing, in summit of saddle, in rock; bronze tablet stamped "5828 1913" (C. & G. S. b. m. H_{13})	[1] 5,821.228
Filben, 1 mile southwest of, opposite "Filben 1 mile" sign; top of rail	5,561.0
Filben, southwest corner of V, between tracks, 20 feet south of wagon road, 12 feet southeast of crossing sign, in rock; bronze tablet stamped "5455 1913" (C. & G. S. b. m. G_{13})	[1] 5,447.899
Filben, 0.18 mile northwest of, at road crossing; top of rail	5,410.9
Belleville, 1,055 feet south of road crossing, 60 feet west of deserted station, 25 feet west of tracks, 125 feet south of section foreman's house, 165 feet north of water tank, in large rock; bronze tablet stamped "5178 1913" (C. & G. S. b. m. E_{13})	[1] 5,171.131
Belleville, 1 mile northeast of, in east end of culvert near "Belleville 1 mile" sign; railroad spike (C. & G. S. b. m. D_{13})	[1] 5,058.530
Tonopah Junction, 4 miles south of, at road crossing; top of rail	4,874.3
Tonopah Junction, 3.06 miles southwest of, in base of north end of culvert 429 A; railroad spike	4,754.00
Tonopah Junction, 1 mile south of, in base of "Tonopah Junction 1 mile" sign; railroad spike	4,486.23
Tonopah Junction, in southwest pier of railroad water tank; bolthead, marked "U. S. B. M." (C. & G. S. b. m. W_{12})	[1] 4,411.566
Sodaville, 2.43 miles south of, 40 feet west of railroad, 90 feet south of road crossing, 566 feet north of milepost 433; iron post stamped "4438 1907" (C. & G. S. b. m. T_{12})	[1] 4,431.841

From Candelaria southeast to Columbus. (Primary leveling by C. R. Smith in 1897.)

Candelaria, in brickwork of front of post office; bronze tablet	5,659.568
Candelaria, 2 miles south of, at Sodaville crossroads; top of iron post of guideboard	5,314.00
Candelaria, 5.75 miles south of, in quartz outcropping on right side of road at summit; bronze tablet stamped "5394"	5,312.249
Columbus, 2 feet west of southwest corner of E. Moleno's saloon; iron post stamped "4625"	4,543.200

From Battle's Well west to Mina. (Primary leveling by T. A. Green in 1907–8.)

Battle's Well, 5.95 miles west of, 10 feet south of road, in large limestone boulder, aluminum tablet stamped "5040 1907"	5,033.097

Near Hawthorne.

Luning, 20.89 miles northwest of, 4.4 miles east of Hawthorne, 70 feet south of old railroad crossing, 10 feet south of wagon road, at forks of road; iron post stamped "4349 1907"	4,342.330
Hawthorne, at northwest corner of old railroad freight station, now occupied by D. W. Earl & Co. as a warehouse; iron post stamped "4334 1907"	4,327.357

[1] Redetermined by U. S. Coast and Geodetic Survey precise leveling, 1915.

From Hawthorne along Southern Pacific R. R. to Schurz, thence along stage road east toward Rawhide.

	Feet.
Walker, in front of signboard; top of rail	4,109.1
Walker Lake, surface of water, September 27, 1908	4,078.0
Schurz, 4.96 miles east of, 25 feet south of road; iron post stamped "4159"	4,151.672
Schurz, 10.01 miles east of, 15 feet east of road, at north end of alkali flat; iron post stamped "4057"	4,050.150

From Rawhide to point 1.8 miles west of Kelly's Well.

Rawhide, 5.02 miles southeast of, 30 feet south of road; iron post stamped "4300"	4,293.896
Murphy's Well, 4.08 miles east of, 30 feet south of road, at dry lake; iron post stamped "4109"	4,102.228
Hot Springs, 30 feet east of spring, in depression in ground; iron post stamped "4131"	4,124.290
Warner's Well, in east end of casing around well; top of iron bolt marked "4260"	4,252.90
Warner's Well, 1.0 mile east of, 40 feet south of road; iron post stamped "4263"	4,256.365
Warner's Well, 6.04 miles east of, 30 feet south of road; iron post stamped "4366"	4,358.666
Warner's Well, 11.07 miles east of, 20 feet south of road; iron post stamped "4577"	4,569.544

From Hawthorne west along stage road to State line. (Primary leveling by C. M. Weston in 1909.)

Hawthorne, 25 feet north of front entrance to old Esmeralda County courthouse, in northeast corner on east side; aluminum tablet stamped "4326 1907"	4,319.984
Hawthorne, 0.5 mile west of, near telephone line from Hawthorne to county hospital, 50 feet east of pole nearest small building north of line, on small boulder; chiseled square painted "4394 O"	4,386.59
Hawthorne, 1.6 miles west of, 35 feet southeast of southeast corner of yard around county hospital, on granite boulder, 9 inches above ground; chiseled circle painted "4591 O"	4,584.08
Hawthorne, 1.9 miles west of, 7 feet inside of east corner of fence around water tanks; iron post stamped "4643"	4,635.961
Hawthorne, 2.7 miles west of, 200 feet east of turn to Cory, 30 feet south of road, on rock; chiseled square painted "4800 O"	4,792.99
Hawthorne, 4.7 miles west of, on south side of north road to Lucky Boy, 10 feet from center of road, at foot of slope, on boulder; chiseled square painted "5302 O"	5,295.36
Hawthorne, 6.5 miles west of, 85 feet east of road, on point on ridge below which main road passes three times, 3 feet east of claim corner and 3 feet southwest of scrub pine; point on ledge painted "O"; stake painted "6027"	6,020.25
Hawthorne, 7 miles west of, in lower part of town of Lucky Boy, about 200 feet south of mine shaft, 12 feet above and on south side of main road, on point of ledge; aluminum tablet stamped "6226"	6,219.042
Hawthorne, 7.7 miles west of, 12 feet north of northeast corner of Lucky Boy reservoir; iron post stamped "6606"	6,599.198
Hawthorne, 8.6 miles west of, 20 feet south of short cut on main road, 8 feet higher than road; point on boulder painted "6849 W"	6,841.57

	Feet.
Hawthorne, 10.8 miles west of, 25 feet west of spout under road in first dry channel east of Summit stage station, on boulder in ditch; chiseled square painted "7362 O"	7,355.18
Hawthorne, 11.4 miles west of, at Summit stage station, at southwest corner of house; iron post stamped "7511"	7,504.123
Hawthorne, 12.6 miles west of, 1.2 miles west of Summit stage station, 12 feet south of road, and 17 feet north of telephone pole, on large granite boulder, 3 feet above ground; chiseled circle painted "7732 W"	7,724.97
Hawthorne, 13.5 miles west of, 2.1 miles west of Summit stage station, south of road at summit, in base of telephone pole; spike painted "8008 O"	8,001.02
Hawthorne, 16.2 miles southwest of, at turn from Hawthorne-Bodie stage road to Yerington, 3 feet southeast of guidepost and 15 feet from either of Y roads; iron post stamped "7145"	7,138.175
Fletcher, 3.9 miles east of, in Mud Spring Canyon, at foot of point of ridge on north side, 175 feet north of dry wash and 25 feet north of road; iron post stamped "6396"	6,389.182
Fletcher, on south side of road and about 75 feet northeast of northeast corner of house, just north of large spring; iron post stamped "6100"	6,092.848
Fletcher, 2.1 miles southwest of, 30 feet west of Bodie Creek, on south side of road, on boulder; chiseled square painted "6222"	6,215.57
Fletcher, 3.4 miles southwest of, 150 feet east of old toll house, 50 feet north of Bodie Creek, 25 feet south of road, on large boulder; chiseled square painted "6447"	6,440.34
Fletcher, 4.3 miles southwest of, in Bodie Creek Canyon, on south side of road, at top of 4-foot boulder; chiseled square painted "6652"	6,644.74
Fletcher, 5.5 miles southwest of, at Del Monte stage station, at northwest corner of platform to old store; iron post stamped "6922"	6,915.103
Fletcher, 6.7 miles southwest of, in Bodie Creek Canyon, on north side of road, on boulder; chiseled square painted "7157"	7,150.62
Fletcher, 7.8 miles southwest of, in Bodie Creek Canyon, on north side of road, at foot of steeper grade, on boulder; chiseled square painted "7422"	7,414.87
Fletcher, 8.1 miles southwest of, on California-Nevada State line, survey of 1873, 25 feet south of milepost 283, 300 feet east of old stone house at Sunshine, 15 feet north of road; iron post stamped "7524"	7,517.124

From Del Monte to Aurora (spur line).

Aurora, 0.9 mile northwest of, 10 feet west of road, opposite 10-foot cut, on 3-foot boulder; chiseled square painted "7246"	7,239.86
Aurora, at southeast corner of post office; iron post stamped "7416"	7,409.234

From junction of East Walker River and Bodie Creek southeast to Fletcher.

Fletcher, 8.7 miles northwest of, on Bodie Creek, 1.3 miles upstream from Wheeler's ranch, at west end of creek, on 4-foot boulder; painted "5660"	5,652.90
Fletcher, 7.7 miles northwest of, on Bodie Creek, 2.3 miles upstream from Wheeler's ranch, on south edge of creek and 20 feet west of 10-foot boulder, on 6-foot boulder; chiseled square painted "5728"	5,720.72

	Feet.
Fletcher, 5.7 miles northwest of, about 500 feet southwest of Bodie Creek and 250 feet east of foot of ridge, 20 feet west of dry channel, on boulder; chiseled square painted "5843"	5,836.36
Fletcher, 4.8 miles northwest of, in pasture owned by G. A. Green, 100 feet west of high bank at sharp bend in Bodie Creek and 300 feet south of point where fence crosses south bank of creek, 3 feet east of wire fence; iron post stamped "5863"	5,855.883
Fletcher, 3.2 miles northwest of, at G. A. Green's ranch, 7 feet south of front gate to front yard and 35 feet east of southeast corner of house; iron post stamped "5948"	5,941.046

HIGHLAND QUADRANGLE (NORTHWEST QUARTER OF PIOCHE QUADRANGLE).

[Latitude 37° 30′–38°; longitude 114° 30′–115°.]

From Bennet Springs along highways northwest 30 miles, thence northeast to Stampede Pass, thence southeast to point near Point Mine. (Primary leveling by D. S. Birkett and Roscoe Reeves in 1915.)

Bennet Springs, 0.7 mile west of, 500 feet west of point where road reaches top edge of bench, 20 feet south of road, in base of cedar tree; railroad spike marked "U. S. B. M. 5436"	5,436.36
Bennet Springs, 2.4 miles west of, 1 mile east of summit on Delamar road, 35 feet north of road, in base of 16-inch cedar stump; railroad spike marked "U. S. B. M. 5664"	5,663.72
Bennet Springs, 2.9 miles west of, at fork in roads to Delamar and Ely Springs; surface of ground	5,743.7
Bennet Springs, 3.2 miles west of, 1,300 feet east of summit of Panaca-Delamar road, 250 feet west of fork of Delamar and Ely Springs roads, 200 feet north of Delamar road and 250 feet south of Ely Springs road, on top of boulder 4 feet high; bronze tablet stamped "5763 1915 23"	5,762.902
Bennet Springs, 4.2 miles northwest of, 1.2 miles northwest of summit of Panaca-Delamar road, 50 feet east of Ely Springs road, in base of juniper tree; railroad spike marked "U. S. B. M. 5954"	5,954.21
Bennet Springs, 5.1 miles northwest of, 2 miles northwest of summit on Panaca-Delamar road, 5 feet east of Bennet Springs-Ely Springs road; top of bonider marked "U. S. B. M. 6162"	6,161.97
Ely Springs, 7.2 miles southeast of, 7 miles northwest of Bennet Springs, at summit on Bennet Springs-Ely Springs road just before descending toward Dry Lake Valley, 4 miles northwest of Panaca-Delamar road summit, 10 feet east of road; iron post stamped "6135 1915 24"	6,134.427
Ely Springs, 5.75 miles southeast of, 900 feet east of point where road from summit leaves the wash, 4 feet south of road, in base of piñon tree; railroad spike marked "U. S. B. M. 5756"	5,755.65
Comet mine, about 2 miles southwest of, 4 miles southeast of Ely Springs, in fork of roads leading to the mine and to Ely Springs, in boulder; bronze tablet stamped "5615 1915 25"	5,614.496
Ely Springs, 3.25 miles southeast of, 30 feet north of forks in roads from Ely Springs east to Comet mine and southeast to Panaca, 1 foot east of road; top of black boulder, marked "U. S. B. M. 5615"	5,614.93
Ely Springs, 1.25 miles southeast of, 0.3 mile east of present road leading to the springs, 150 feet west of old road; point on large red mass of lava rock, marked "U. S. B. M. 5599"	5,598.58

	Feet.
Ely Springs, 0.5 mile southeast of, at top of small summit on road leading toward Panaca, 30 feet south of summit, 15 feet west of road, in juniper tree; railroad spike, scribed "U. S. B. M. 5705"	5,705.22
Ely Springs, 50 feet north and 60 feet west of northwest fence corner of inclosure about reservoirs, 60 feet north of little stream; iron post, stamped "5427 1915 26"	5,426.737
Ely Springs, 0.6 mile west of, down the wash, 70 feet north of road; top of large boulder, marked "U. S. B. M. 5268"	5,267.45
Ely Springs, 1.2 miles west of, down the wash, 35 feet north of road; top of large white boulder, marked "U. S. B. M. 5108"	5,108.17
Ely Springs, 1.8 miles west of, 0.2 mile northwest of rocky point at mouth of canyon leading to Ely Springs, on slope leading down to bottom of Dry Lake Valley, 20 feet south of road leading toward Stampede Pass; top of large boulder, marked "U. S. B. M. 4977"	4,976.984
Dry Lake Valley, 6.5 miles southwest of fork of Pioche-Coyote Springs road and Ely Springs road, 2.9 miles northwest of Ely Springs, 10.75 miles southwest of Stampede Pass, along road, at foot of slope, at east edge of flat portion of the valley, 250 feet north of fork of Ely Springs-Stampede Pass Road and road to Coyote Springs (?), 20 feet west of road to Stampede Pass; iron post stamped "4755 1915 27"	4,754.478
Dry Lake Valley, east edge of, 3.8 miles southwest of forks of Pioche-Coyote Springs road and Ely Springs road, 8 feet west of road to Ely Springs; top of boulder, marked "U. S. B. M. 4926"	4,925.64
Stampede Pass, 6.8 miles southwest of, 2.5 miles southwest of forks of Pioche-Coyote Springs road and Ely Springs road, 70 feet south of road; top of boulder, marked "U. S. B. M. 5092"	5,091.61
Stampede Pass, 6.8 miles southwest of, 2.5 miles southwest of forks of Pioche-Coyote Springs road and Ely Springs road, 8 feet south of road to Ely Springs, on top of slope on north side of deep wash, on basalt boulder; bronze tablet, stamped "5177 1915 28"	5,176.638
Stampede Pass, 5.7 miles southwest of, 1.4 miles southwest of forks of Pioche-Coyote Springs road and Ely Springs road, 60 feet south of Ely Springs road, in small draw; top of boulder, marked "U. S. B. M. 5350"	5,350.23
Stampede Pass, 4.8 miles southwest of, 0.5 mile southwest of forks of Pioche-Coyote Springs and Ely Springs roads, 200 feet east of Ely Springs road; top of basalt boulder, marked "U. S. B. M. 5537"	5,537.15
Stampede Pass, 4.3 miles southwest of, 15 feet east of forks of Pioche-Coyote Springs and Ely Springs roads, about 2.5 miles east of foot of slope on east side of Dry Lake Valley, 8 feet north of main road; iron post, stamped "5585 1915 29"	5,585.336
Stampede Pass, 3.7 miles west of, 0.7 mile east of forks of Pioche-Coyote Springs and Ely Springs roads, 1 foot south of road; top of boulder, marked "U. S. B. M. 5778"	5,778.13
Stampede Pass, 3.1 miles west of, 6 feet south of road; top of boulder, marked "U. S. B. M. 5987"	5,986.72
Stampede Pass, 2.5 miles west of, 1.8 miles east of fork of Coyote Springs and Ely Springs roads, 5 feet north of road, in juniper tree; railroad spike, scribed "U. S. B. M. 6199"	6,199.02
Stampede Pass, 2 miles west of, 6 feet north of road, in 8-inch cedar tree; railroad spike, scribed "U. S. B. M. 6397"	6,396.56

	Feet.
Stampede Pass, 225 feet west of and 6 feet below level of summit of, 20 feet north of and 7 feet above wagon road, witnessed by pile of boulders, in limestone outcrop; bronze tablet, stamped "7315 1915 29" (restamped 30)	7,315.432
Stampede Pass; ground at summit	7,321.6
Stampede Pass, 2.4 miles southeast of, 2.6 miles west of the "Point mine," 800 feet northeast of prospector C. H. Smith's cabin, in fork of main road with old road leading across wash and up to the pass, south side of main wash; iron post stamped "6551 1915 31"	6,550.666

From point 6.1 miles south of Bristol Well south along highway to point 4.3 miles southwest of Stampede Pass.

Bristol Well, 7.1 miles south of, 2 miles south of road forks, 15 feet west of road; top of rock about 2 feet high, painted "5,488.226"	5,487.88

From point near Pioche to point 4.8 miles northwest of Pioche.

Pioche, 4.8 miles northwest of, 2.4 miles north of railroad crossing, east margin of road, in limestone ledge; hole 1 inch square ¼ inch deep, painted "5,844"	5,844.23

IVANPAH QUADRANGLE.

[Latitude 35°–36°; longitude 115°–116°.]

From Jean along highways west and northwest to Good Springs, thence north to a bench mark 4.2 miles east of Mountain Spring, set in 1907. (Primary leveling by L. F. Biggs in 1915.)

Jean-Clark county line (see U. S. C. & G. S. Special Pub. 18, p. 204)	2,866.336
Jean, 1.3 miles west of, 40 feet south of road at junction of second-class road south; chiseled point on rock, painted "2,881 U. S. B. M."	2,880.66
Jean, 2.2 miles west of, 20 feet north of road; chiseled point on rock, painted "2,920 U. S. B. M."	2,920.45
Jean, 3.3 miles west of, 30 feet south of road; chiseled point on rock, painted "U. S. B. M. 2,974"	2,974.39
Jean, 4.5 miles west of, 6.5 miles southeast of Good Springs, 40 feet north of crossroads; iron post stamped "3014 1 1915"	3,013.903
Good Springs, 4.4 miles southeast of, 10 feet north of road; chiseled point on rock, painted "U. S. 3117 b. m."	3,117.01
Good Springs, 3.5 miles southeast of, 10 feet north of road, at Y road southwest; top of rock, painted "U. S. 3249 B. M."	3,248.64
Good Springs, 2.1 miles southeast of, at top of grade where road leaves canyon, 10 feet east of road, in flat rock ledge; bronze tablet stamped "3472 2 1915"	3,472.327
Good Springs, 1.4 miles southeast of, 100 feet southeast of crossroads; chiseled point on rock, painted "U. S. 3557 B. M."	3,557.01
Good Springs, 350 feet southeast of Yount & Fayles store, 50 feet south of road, in sandstone rock (probably quarter section corner); aluminum tablet stamped "3695 3 1915"	3,694.755
Good Springs, at schoolhouse, in foundation, 1 foot above ground and 1 foot south of northeast corner; bronze tablet stamped "3718 4 1915"	3,717.807
Good Springs, 1.1 miles north of, west edge of road; chiseled point on rock, painted "U. S. 3759 B. M."	3,759.06

	Feet.
Good Springs, 2.4 miles north of, at fork of road to Double Up mine; chiseled point on rock, painted "U. S. 3928 B. M."	3,927.55
Good Springs, 3.6 miles north of, 20 feet west of road; chiseled point on rock, chiseled "U. S. 4034 B. M."	4,034.11
Good Springs, 5.3 miles north of, at junction of road to 99 mine; iron post stamped "4260 8 1915"	4,259.810
Good Springs, 6.5 miles north of, 20 feet west of road; chiseled point on rock, chiseled "U. S. 4418 B. M."	4,417.49
Good Springs, 7.2 miles north of edge of road; chiseled point on ledge, painted "U. S. 4522 B. M."	4,522.13
Good Springs, 8.1 miles north of, 30 feet east of road, at rocky point; chiseled point on rock, painted "U. S. 4649 B. M."	4,648.57
Good Springs, 9.2 miles north of, 0.6 mile south of Cottonwood Summit 30 feet east of road, in ledge; chiseled point, painted "U. S. 4790 N. M."	4,789.67
Cottonwood Pass, 9.8 miles north of Good Springs, 30 feet east of road at summit of pass, in ledge; bronze tablet stamped "4920 16 1915"	4,920.158
Cottonwood Pass, 1.3 miles north of, east edge of road, on slate ledge; chiseled point, painted "U. S. 4555 B. M."	4,555.07

From point 4.2 miles east of Mountain Spring along highways southwest to Potosi, thence south 8.9 miles, thence east via Wilson Pass to Good Springs. (See Las Vegas quadrangle for part of this line.)

Potosi Mine, 5.3 miles northeast of, in small saddle, on north edge of road; point on rock, painted "U. S. 4925 B. M."	4,924.70
Potosi Mine, 3.5 miles northeast of, on north edge of road, on ledge; chiseled point, painted "U. S. 5384 B. M."	5,383.75
Potosi Mine, 1.8 miles northeast of, 80 feet south of road in saddle, in ledge; bronze tablet stamped "6239 20 1915"	6,239.163
Potosi Mine, 150 feet east of Cook House, in rock ledge; bronze tablet stamped "5699 21 1915"	5,698.843
Potosi Mine, 1 mile south of, 50 feet northwest of Y road to Ripley; chiseled point on rock, painted "U. S. 5373 B. M."	5,372.52
Potosi Mine, 2 miles south of, west edge of road, 1,000 feet north of wash; chiseled point on rock, painted "U. S. 5087 B. M."	5,086.35
Potosi Mine, 3.5 miles south of, west edge of road, near north base of small butte, on rock; chiseled point, painted "U. S. 4859 B. M."	4,858.53
Potosi Mine, 4.8 miles south of, about 0.3 mile west of negro camp, west edge of road, 150 feet south of saddle, in rock ledge; bronze tablet flush with ground stamped "4707 22 1915"	4,706.588
Wilson Pass, 4.3 miles northwest of, in saddle at east base of butte, east edge of old trail, on rock; chiseled point, marked "U. S. 4385 B. M."	4,385.21
Wilson Pass, 3 miles northwest of, in saddle, at east edge of road, on rock; chiseled point, painted "U. S. 4401 B. M."	4,401.34
Wilson Pass, 1.8 miles west of, 500 feet southwest of second-class road northwest, north edge of road; chiseled point on rock, marked "U. S. 4313 B. M."	4,312.99
Wilson Pass, 0.9 mile west of, north edge of road, on rock ledge; chiseled point, painted "U. S. 4590 B. M."	4,589.56
Wilson Pass, north edge of road, in rock ledge; aluminum tablet stamped "5023 7 1915"	5,022.505

	Feet.
Wilson Pass, 0.6 mile southeast of, north edge of road where road leaves canyon; chiseled point on rock, marked "U. S. 4761 B. M."	4,761.24
Good Springs, 4.5 miles northwest of, at Red Cloud mine, 10 feet north of road, on rock; chiseled point marked "U. S. 4534 B. M."	4,534.33
Good Springs, 4.1 miles northwest of, at Y road, on rock; chiseled point, marked "U. S. 4447 B. M."	4,447.33
Good Springs, 3 miles northwest of, 60 feet southeast of junction of Yellow Pine mine and Wilson Pass roads, in conglomerate ledge; aluminum tablet stamped "4197 6 1915"	4,196.753
Good Springs, 2.3 miles northwest of, 60 feet east of road forks, on rock; chiseled point, painted "U. S. 4036 B. M."	4,035.51
Good Springs, 1.7 miles northwest of, 100 feet south of railroad crossing, on rock; chiseled point, painted "U. S. 3937 B. M."	3,937.40
Good Springs, 1 mile northwest of, 300 feet east of railroad crossing, 20 feet east of road, on rock; chiseled point, painted "U. S. 3825 B. M."	3,824.65

From Good Springs along highways southwest via Columbia Pass to point 2 miles west of McVicar mine, thence north to point 1.8 miles west of Wilson Pass.

Good Springs, 1.3 miles west of, at fork of road to Jean, on rock; chiseled point, painted "U. S. 3754 B. M."	3,754.39
Good Springs, 2.3 miles west of, south edge of road, on ledge; chiseled point, marked "U. S. 3985 B. M."	3,985.04
Good Springs, 3 miles west of, south edge of road, on ledge; chiseled point, marked "U. S. 4176 B. M."	4,176.27
Columbia Pass, 0.4 miles east of, north edge of road, opposite Columbia mine ore chute, in ledge; aluminum tablet, marked "4273 5 1915"	4,272.769
Columbia Pass, 20 feet south of road, on rock; chiseled point, marked "U. S. 4434 B. M."	4,434.13
Columbia Pass, 1 mile west of, south edge of road, on white rock; chiseled point, painted "U. S. 4221 B. M."	4,220.58
Columbia Pass, 2 miles west of, 300 feet west of road to Kerby mine, 50 feet west of road, on rock ledge; chiseled point marked "U. S. 3909 B. M."	3,909.12
Columbia Pass, 2.5 miles west of, 900 feet north of Y road to Sultan mine, west edge of road, opposite Bill Nye mine; bronze tablet in rock ledge, stamped "3708 10 1915"	3,707.600
Junction of Ripley and Sultan mine roads, 0.8 mile south of, at second-class road to Hoosier mine, on rock; chiseled point, marked "U. S. 3432 B. M."	3,431.50
Tiffin mine No. 2, 0.5 mile north of, at junction of road to Sultan mine, on rock; chiseled point, painted "U. S. 3292 B. M."	3,291.95
Tiffin mine, 100 feet west of tents, on large boulder; bronze tablet stamped "3284 10 A 1915"	3,283.818
McVicar mine, 300 feet southeast of tents, on rock; chiseled point, painted "U. S. 3006 B. M."	3,005.57
McVicar mine, 0.8 mile west of, at foot of hill, 80 feet north of wash, on rock ledge; chiseled point, marked "U. S. 2828 B. M."	2,828.23
Ripley, 3.5 miles southeast of, at forks of Y road northwest, 20 feet east of road; iron post stamped "2616 11 1915"	2,615.572

	Feet.
Ripley, 2.2 miles southeast of, at Y fork at second-class road northwest, on rock; chiseled point, marked "U. S. 2616 B. M."	2,615.92
Ripley, 1 mile southeast of, at Y fork at second-class road north; chiseled point on rock, marked "U. S. 2653 B. M."	2,653.04
Ripley, 1 mile east of, at fork at road to Boss mine; iron post stamped "2700 12 1915"	2,699.721
Boss mine, 100 feet north of cook house; bronze tablet in ledge stamped "3156 13 1915"	3,156.189
Boss mine, 0.6 mile north of, east edge of road, in saddle, on rock; chiseled point, painted "U. S. 3395 B. M."	3,394.60
Road fork to Betty Brown mine, 40 feet east of road, on rock; chiseled point, marked "U. S. 3513 B. M."	3,512.60
Boss mine, 2 miles northeast of, at east edge of Butte, north side of wash, on ledge; chiseled point, painted "U. S. 3678 B. M."	3,677.85
Boss mine, 2.6 miles northeast of, 200 feet north of road fork to Keystone mine, 10 feet east of road, at base of hill; bronze tablet stamped "3842 14 1915"	3,842.357

From point 4.5 miles west of Jean, southwest along highways to point 2 miles east of New Year mine (double spur line).

Jean, 4.5 miles west of, 5.5 miles southeast of Good Springs, 40 feet north of crossroads; iron post stamped "3014 1 1915"	3,013.903
Bullion mine, 1.5 miles east of, south edge of road, on rock; chiseled point, marked "U. S. 3198 B. M."	3,197.63
Bullion mine, 1 mile east of, 30 feet south of road, 100 feet east of road forks, on rock; chiseled point, painted "U. S. 3327 B. M."	3,326.48
Bullion mine, about 1 mile southeast of, 20 feet west of old road, on rock cliff; bronze tablet stamped "3348 17 1915"	3,347.862
Bullion mine, about 3 miles south of, 100 feet west of road fork to Borax, east edge of road, on ledge; chiseled point, marked "U. S. 3358 B. M."	3,358.11
New Year mine, about 2 miles east of, 0.8 mile west of Borax and Bullion mine road forks, north side of road, in rock cliff; bronze tablet stamped "3500 18 1915"	3,499.895

From point 5 miles west of Searchlight west along Atchison, Topeka & Santa Fe Ry. to State line. (Primary leveling in 1909 by L. F. Biggs.)

Searchlight, 5.6 miles west of, in base of milepost 17; spike with aluminum tag stamped "3612"	3,610.30
Searchlight, 6.6 miles west of, in base of milepost 16; spike with aluminum tag stamped "3735"	3,733.81
Searchlight, 7.6 miles west of, 5 feet west of milepost 15, north edge of railroad right of way; iron post stamped "3860 B 1909 16"	3,858.635
Searchlight, 8.6 miles west of, in base of milepost 14; spike with aluminum tag stamped "3965"	3,963.52
Searchlight, 9.6 miles west of, in base of fourth telephone pole west of milepost 13; spike with aluminum tag stamped "4058"	4,056.09
Searchlight, 10.6 miles west of, in base of milepost 12; spike with aluminum tag stamped "4146"	4,144.61
Searchlight, 11 miles west of, north edge of railroad right of way, 50 feet east of Nevada-California State line post, in bedrock; aluminum tablet stamped "4199 B 1909 17"	4,197.649

From Stump Springs south to Culver ranch, near State line.[1]

	Feet.
Stump Springs, 4.7 miles southwest of, 100 feet north of junction of Stump Springs and Sandy roads; iron post stamped "2708 B 1909 54"	2,706.380
Stump Springs, 7.2 miles southeast of, 20 feet west of road, at northwest point of clay-colored butte; iron post stamped "2848 B 1909 53"	2,846.283
Culver ranch, 500 feet north of house, 15 feet west of road; iron post stamped "2684 B 1909 52"	2,682.739

JEAN QUADRANGLE.

[Latitude 35° 30′–36°; longitude 115°–115° 30′.]

From Roach north along San Pedro, Los Angeles & Salt Lake R. R. to Bard. (Precise leveling by U. S. Coast and Geodetic Survey.)

Roach, 12½ poles south of milepole 292, 1½ poles north of railroad section foreman's house, 18 meters west of San Pedro, Los Angeles & Salt Lake R. R. track; 1.5 meters below base of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. A)	2,612.636
Borax, 21 meters east of twelfth pole south of milepole 297, 4.5 meters east of railroad track, on horizontal surface of northwest corner of most northwesterly of the 3 southerly concrete foundation piers to steel water tank of railroad, 0.5 meter above base of rail, bottom of square hole (C. & G. S. b. m. B)	2,703.364
Jean, 13.5 meters north of third pole north of milepole 301, 41 meters southwest of southwest corner of depot, 17 meters west of main railroad track, 20 meters east and in front of post office and store of Yount & Fayle, in compact gravel, 0.5 meter below the base of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. C)	2,866.336
Jean, 2.3 miles north of, 13 poles north of milepole 303, 32 meters west of track, in gravel 1.5 meters below base of rail, on iron pipe; chiseled cross marked "U. S." (C. & G. S. b. m. D)	2,963.233
Sutor, 10.5 poles southwest of milepost 306, 16 meters southeast of track, 31 meters south of signboard, 1.5 meters below base of rail, on iron pipe; chiseled cross marked "U. S." (C. & G. S. b. m. E)	3,033.531
Erie, 1.2 miles southwest of, 1.5 poles north of milepole 308, 17.5 meters east of track, on level with base of rail, on top of iron pipe; chiseled cross marked "U. S." (C. & G. S. b. m. F)	3,091.352
Erie, opposite seventh pole northeast of milepole 309, 47 meters west of west corner of railroad depot, 16 meters northwest of track, 0.5 meter above base of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. G)	3,122.143
Sloan, 0.7 mile southwest of, 11.66 poles north of milepole 314, east concrete abutment to bridge 314, in top horizontal surface of east end, 2.66 meters east of track, 0.25 meter below base of rail; chiseled square (C. & G. S. b. m. H)	2,859.450
Sloan, 1.5 poles east of milepole 315, 14 meters southwest of signboard, 19 meters southwest of track, 0.5 meter below base of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. I)	2,828.787
Sloan, 2.2 miles north of, 4 meters northeast of sixth pole northwest of milepole 317, 15 meters northeast of track, 2 meters below base of rail, on top of iron pipe; chiseled cross marked "U. S." (C. & G. S. b. m. J)	2,717.534

[1] Part of circuit from Barnwell in which an excessive error has been adjusted.

	Feet.
Bard, 4.5 meters north of ninth pole northwest of milepole 320, 11 meters east of signboard, 15 meters northeast of track, 1 meter below base of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. K)	2,574.792

KAWICH QUADRANGLE.

[Latitude 37°–38°; longitude 116°–117°.]

From Bonnie Claire southeast along Bullfrog Goldfield R. R. to Pioneer. (Precise leveling by U. S. Coast and Geodetic Survey.)

Bonnie Claire, 8.5 miles south of, 30 meters north of milepole 123, 15 meters west of railroad track, in stone post; red-metal disk (C. & G. S. b. m. C_{16})	3,960.550
Bonnie Claire, 11.5 miles south of, 2 telegraph poles and 20 meters south of milepole 128, 15 meters west of track, in stone post; red-metal disk (C. & G. S. b. m. D_{16})	3,973.932
Bonnie Claire, 15.5 miles south of, 3 meters north of milepole 131, 15 meters west of railroad, in top of stone post; red-metal disk (C. & G. S. b. m. E_{16})	3,999.205
Ancram, opposite end of switch, 3 meters north of milepole 134, 15 meters west of main track of railroad, in top of stone post; red-metal disk (C. & G. S. b. m. F_{16})	4,022.082
Ancram, 3 miles south of, 3 meters north of milepole 137, 15 meters west of track, in line with telegraph poles, in top of stone post; red-metal disk (C. & G. S. b. m. G_{16})	4,026.931
Pioneer, 3 miles north of, 2 telegraph poles and 5 meters south of milepole 140, 15 meters west of track, on small hill made by railroad cutting through a small ridge, 200 meters north of road crossing, in top of stone post; red-metal disk (C. & G. S. b. m. H_{16})	3,985.104
Pioneer, near north end of side track, 250 meters north of station, 35 meters west of main track of railroad, abreast of milepole 143, on iron post; red-metal disk (C. & G. S. b. m. I_{16})	3,860.150

From point near Seattle Well to point 2.2 miles north of Mud Springs. (Primary leveling by Ress Philips in 1905.)

Seattle Well, 5 miles south of, 30 feet south of large yucca stump, 10 feet east of road; iron post stamped "23"	4,337.394
Mud Springs, 5 miles north of, at fork of Bullfrog road on south side of small ravine; iron post stamped "24"	4,454.272

KUMIVA QUADRANGLE.

[Latitude 40°–40° 30′; longitude 119°–119° 30′.]

Elevations by water leveling along shore of Winnemucca Lake by General Land Office in 1912.

T. 25 N., R. 23 E., N. ½ SE. ¼ sec. 3, 20 chains east and 30 chains north of quarter corner of secs. 3 and 10, 600 feet west of lake shore, 8 feet west of center of Wadsworth-Gerlac road; standard b. m. post	3,878.551
T. 26 N., R. 23 E., NE. ¼ SE. ¼ sec. 10, S. 35° 40′ W. 18.63 chains from meander corner of secs. 10 and 11, 5 feet west of center of Wadsworth-Gerlac road, 200 feet south of spring, 250 feet south of fork in road, 200 feet west of lake shore, opposite small bay, 1,000 feet north of corral on road; standard b. m. post marked "3876"	3,867.778

	Feet.
T. 27 N., R. 23 E., SW. ¼ sec. 14, N. 36° 35′ E. 24.67 chains from closing corner on Reservation boundary of line between secs. 15 and 22, 7 feet west of center of Wadsworth-Gerlac road, 210 feet west of lake shore, 600 feet N. 70° W. of chimney-shaped rock on lake shore; standard b. m. post marked "3886"	3,877.992
Winnemucca Lake, at middle latitude point, surface of water, July 11, 1911	3,852.5
Winnemucca Lake, at middle latitude point, surface of water, May 14 to June 10, 1912	3,852.5
Winnemucca Lake, at middle latitude point, surface of water, June 26, 1912	3,852.4
Winnemucca Lake, at middle latitude point, surface of water, June 1, 1912	3,852.3

NOTE.—The orthometric elevation of this lake is about 0.07 foot lower at north end and 0.07 foot higher at south end than the height at middle latitude point.

LAS VEGAS QUADRANGLE.

[Latitude 36°–37°; longitude 115°–116°.]

From Arden northeast along San Pedro, Los Angeles & Salt Lake R. R. to Dike. (Precise leveling by U. S. Coast and Geodetic Survey.)

Arden, 2 miles south of, 12¼ poles south of milepole 323, 17 meters east of track, 1.5 meters below base of rail, on top of iron pipe; chiseled cross marked "U. S." (C. & G. S. b. m. L)	2,489.132
Arden, 0.2 mile north of, 5.5 poles south of milepole 325, 17 meters east of track, 1.5 meters below base of rail, on top of iron pipe; red-metal disk (C. & G. S. b. m. M)	2,401.593
Arden, 1.5 miles north of, 1 meter east of second pole north of milepole 326, 12.5 meters east of track, 1.5 meters below base of rail; iron post stamped "B 1907, 119, 2336," aluminum disk marked "U. S. G. S. B. M." (C. & G. S. b. m. 2336 B)	2,334.624
Bracken, 25.5 meters northwest of signboard, 19 meters east of track, 1 meter below base of rail, on top of iron post; red-metal disk (C. & G. S. b. m. N)	2,167.519
Bracken, 0.7 mile north of, 3 meters east of milepole 330, 14¼ meters east of track, 2 meters below base of rail; iron post stamped "B 1907, 118, 2136" (C. & G. S. b. m. 2136 B)	2,134.392
Las Vegas, at southeast corner of Main and Garcia streets, 6 blocks south and 1 block east of depot, half a block southeast of plant of Las Vegas Ice & Manufacturing Co., 7 meters south of curb on Garcia Street, 9.5 meters east of curb on Main Street, in top of stone post; bottom of square hole (C. & G. S. b. m. O)	2,028.727
Las Vegas, near northwest corner of First and Fremont streets, in sidewalk at southeast corner of First State Bank Building, 1 decimeter north of foot of column; aluminum tablet stamped "B 1907, 117, 2024," marked "U. S. G. S. B. M." (C. & G. S. b. m. 2024 B)	2,022.447
Las Vegas, 2 blocks north and 2 blocks east of depot, at northeast corner of Stewart and First streets, 4 meters east of curb on First Street, 4 meters north of curb on Stewart Street, half a block north of Arizona Club, on top of iron post; red-metal disk (C. & G. S. b. m. P)	2,018.880

	Feet.
Las Vegas, 46 meters west of entrance to ladies' waiting room of depot, 31 meters west of main track, 0.5 meter above base of rail; iron post stamped "B 1907 116 2033 U. S. G. S. B. M." (C. & G. S. b. m. 2033 B)	2,031.393
Stewart, 225 meters northeast of signboard "Stewart," 17 paces southeast of east rail of main track, 4 telegraph poles southwest of milepole 339, 21 paces southwest of section house, in fence corner outside of right of way, 2.5 feet from north fence and 3 feet from east fence, in top of stone post; bottom of square hole (C. & G. S. b. m. Q)	1,906.089
Valley, 0.6 mile southwest of, 5 telegraph poles southwest of milepole 341, 19.7 feet southeast of east rail of main track, 2.8 feet from line of north bulkhead (produced) of bridge 341B, on large porphyry block in riprap work on southeast side of bridge, at northeast end of bridge opening; bottom of square hole marked "U. S. B. M." (C. & G. S. b. m. R)	1,973.901
Valley, 125 feet northwest of west rail of main track, directly opposite signboard "Valley," in top of stone post; bottom of square hole (C. & G. S. b. m. S)	2,008.795
Valley, 2.5 miles northeast of, 110 meters northeast of center of bridge 344C, 20.8 meters northwest of center line of main track, 6.6 meters northwest of milepole 345, on top of iron post; red-metal disk (C. & G. S. b. m. T)	2,135.042
Dike, 300 meters east of signboard "Dike," 5 telegraph poles east of milepole 347, 218 meters south of center line of main track, 44 paces west of west face of section house and in line with the back wall produced, in top of stone post; bottom of square hole (C. & G. S. b. m. U)	2,249.540
Dike, 3 miles northeast of, 40 meters southwest of milepole 350, 250 meters southwest of bridge 350A, 11.7 meters northwest of west rail of main track and 5.8 meters above it, 1.5 meters southeast of line between milepole 350 and first telegraph pole south of it, set vertically in rock outcrop; copper bolt in cement (C. & G. S. b. m. V)	2,413.168

From point 14.4 miles east of Amargosa southeast along Las Vegas & Tonopah R. R. to Las Vegas. (Precise leveling by U. S. Coast and Geodetic Survey.)

Amargosa, 14.4 miles east of, 10 feet north of milepole 60; iron post stamped "3628 U. S. G. S." (C. & G. S. b. m. K_{17})	3,627.171
Amargosa, 16.2 miles east of, 5 meters west of milepole 53, 15 meters north of track, in top of stone post; red-metal disk (C. & G. S. b. m. L_{17})	3,613.982
Amargosa, 18.4 miles east of, 12 miles west of Indian Springs, 10 feet north of milepole 56; iron post stamped "3576 U. S. G. S." (C. & G. S. b. m. M_{17})	3,574.953
Indian Springs, 8 miles west of, 10 feet north of milepole 52; iron post stamped "3431 U. S. G. S." (C. & G. S. b. m. N_{17})	3,429.918
Indian Springs, 6 miles west of, 1 meter east of milepole 50, 15 meters north of track (C. & G. S. b. m. O_{17})	3,333.222
Indian Springs, 4 miles west of, 10 feet north of milepole 48; iron post stamped "3279 U. S. G. S." (C. & G. S. b. m. P_{17})	3,278.314
Indian Springs, 0.2 mile west of, 10 feet north of milepole 44; iron post stamped "3135 U. S. G. S." (C. & G. S. b. m. Q_{17})	3,134.498

	Feet.
Indian Springs, 3.5 miles east of, 10 feet north of milepole 40; iron post stamped "3148 U. S. G. S." (C. & G. S. b. m. R_{17})	3,146.372
Indian Springs, 5.5 miles east of, 3 meters west of milepole 38, in top of stone post; red-metal disk (C. & G. S. b. m. S_{17})	3,099.567
Indian Springs, 7.5 miles east of, 10 feet north of milepole 36; iron post stamped "3084 U. S. G. S." (C. & G. S. b. m. T_{17})	3,073.386
Indian Springs, 11.5 miles east of, 10 feet north of milepole 32; iron post stamped "3062 U. S. G. S." (C. & G. S. b. m. U_{17})	3,060.945
Indian Springs, 15.5 miles east of, 10 feet north of milepole 28; iron post stamped "3029 U. S. G. S." (C. & G. S. b. m. V_{17})	3,028.314
Indian Springs, 17.5 miles east of, 2 meters west of milepole 36, in top of stone post; red-metal disk (C. & G. S. b. m. W_{17})	2,925.040
Corn Creek, 0.6 mile west of, 10 feet north of milepole 24; iron post stamped "2876 U. S. G. S." (C. & G. S. b. m. X_{17})	2,875.227
Corn Creek, 3.4 miles east of, 10 feet north of milepole 20; iron post stamped "2779 U. S. G. S." (C. & G. S. b. m. Y_{17})	2,778.577
Corn Creek, 7.4 miles east of, 10 feet north of milepole 16; iron post stamped "2645 U. S. G. S." (C. & G. S. b. m. Z_{17})	2,644.329
Corn Creek, 9.4 miles east of, 2 meters west of milepole 14; in top of stone post; red-metal disk (C. & G. S. b. m. A_{18})	2,543.745
Las Vegas, 12 miles north of, 10 feet north of milepole 12; iron post stamped "2454 U. S. G. S." (C. & G. S. b. m. B_{18})	2,452.774
Las Vegas, 8 miles north of, 40 feet south of milepole 8; iron post stamped "2294 U. S. G. S." (C. & G. S. b. m. C_{18})	2,292.892
Las Vegas, 6 miles north of, 2 telegraph poles north of milepole 6, 36 meters east of track; on top of stone post; red-metal disk (C. & G. S. b. m. D_{18})	2,233.992
Las Vegas, 4 miles north of, 10 feet north of milepole 4; iron post stamped "2139 U. S. G. S." (C. & G. S. b. m. E_{18})	2,137.630
Las Vegas, in the south end of lower step to Clark County courthouse; red-metal disk (C. & G. S b. m. F_{18})	2,020.954

From Las Vegas southwest along San Pedro, Los Angeles & Salt Lake R. R. 20.4 miles, thence west along road to Stump Springs and northwest to Pahrump. (Primary leveling by L. F. Biggs in 1907.)

Las Vegas, 4.4 miles southwest of, 10 feet south of milepost 330; iron post stamped "2136 B 1907"	2,334.624
Las Vegas, 8.4 miles southwest of, 400 feet northeast of milepost 326; iron post stamped "2336 B 1907"	2,334.624
Arden, in front of station; top of rail	2,417.2
Las Vegas, 12.3 miles southwest of, 20 feet south of road; iron post stamped "2631 B 1907"	2,629.919
Las Vegas, 16.9 miles southwest of, 20 feet north of road; iron post stamped "3036 B 1907"	3,034.728
Las Vegas, 20.4 miles southwest of, 10 feet south of road, in boulder; aluminum tablet stamped "3493 B 1907"	3,491.472
Mountain Spring, 4.2 miles east of, 20 feet south of road, in boulder; aluminum tablet stamped "4557 B 1907"	4,556.046
Mountain Spring, 0.5 mile south of, 20 feet south of road; iron post stamped "5504 B 1907"	5,502.263
Mountain Spring, 4.3 miles west of, 10 feet north of road, in boulder; aluminum tablet stamped "4556 B 1907"	4,554.824
Mountain Spring, 8.1 miles west of, 10 feet north of road, in boulder; aluminum tablet stamped "3909 B 1907"	3,908.234

	Feet.
Stump Springs, 5 miles east of, at junction of roads; iron post stamped "3162 B 1907"	3,160.887
Stump Springs, 200 feet south of, at junction of roads; iron post stamped "2809 B 1907"	2,807.021
Stump Springs, 6.2 miles west of, 8 miles southeast of Manse, 20 feet north of road; iron post stamped "2929 B 1907"	2,927.785
Manse, 40 feet south of post office, in front of ranch house; iron post stamped "2776 B 1907"	2,774.674
Pahrump, 20 feet north of hotel; iron post stamped "2668 B 1907"	2,666.583

From Las Vegas south 15 miles along road to Searchlight. (Part of circuit to Barnwell, Cal.)

Las Vegas, 3.7 miles south of, 50 feet west of spring, in base of mesquite tree; nail with aluminum tag stamped "1793"	1,791.35
Las Vegas, 7.2 miles south of, 25 feet west of road, in base of mesquite; spike with aluminum tag stamped "1677"	1,675.52
Mesquite Spring, 25 feet east of pump, in base of mesquite; spike with aluminum tag stamped "1621"	1,619.65
Mesquite Spring, 25 feet north of pump, in base of mesquite; spike with aluminum tag stamped "1621"	1,619.63
Mesquite Spring, 25 feet north of pump, in lava rock buried flush with ground; aluminum tablet stamped "1621 B 1909 1"	1,619.564
Mesquite Spring, 3.9 miles south of, 20 feet east of road, 300 feet north of road junction to Camp Fred Ellen, in boulder, marked by rock cairn; aluminum tablet stamped "1746 B 1909 2"	1,743.988

From point 4.2 miles east of Mountain Spring west along highway toward Potosi. (Primary leveling by L. F. Biggs in 1915.)

Mountain Spring, 4.2 miles east of, 20 feet south of road, in boulder; aluminum tablet stamped "4557 B 1907 123." (Bull. 488, p. 10, value 4555.516+.530)	4,556.046
Potosi Mine, 4.7 miles northeast of, 60 feet east of fork of road to Mountain Spring, on rock ledge; chiseled point, painted "U. S. 5055 B. M."	5,054.53

LIDA QUADRANGLE.[1]

[Latitude 37°–38°; longitude 117°–118°.]

From McSweeney south along Tonopah and Goldfield R. R. to Goldfield. (Precise leveling by U. S. Coast and Geodetic Survey.)

McSweeney Junction, 5.5 miles south of, 5 meters south of milepole 63, 20 meters west of track; on top of iron post: red-metal disk (C. & S. b. m. D_{15})	5,027.441
Klondyke, 0.5 mile north of, 3 meters south of milepole 67, 20 meters west of track; on top of iron post; red-metal disk; (C. & G. S. b. m. E_{15})	4,926.263
Klondyke, 3.5 miles southwest of, 3 meters south of milepole 71, 20 meters west of track, in line with telegraph poles, on top of iron post; red-metal disk (C. & G. S. b. m. F_{15})	5,046.548
Columbia, 4 miles north of, 300 meters east of track, opposite fifth telegraph pole north of milepole 76; iron post stamped "5346" (U. S. G. S.) (C. & G. S. b. m. G_{15})	5,339.320

[1] See Silver Peak quadrangle, pp. 65–66.

	Feet.
Goldfield, 1 mile north of, in west end of concrete pier at end of spur of railroad tracks leading to an abandoned mill, in top of stone post; bottom of square hole (C. & G. S. b. m. H_{18})	5,555.474
Goldfield, in west face of bank on corner of Columbia Street and First Street north of Crook Avenue; red-metal disk, (C. & G. S. b. m. I_{18})	5,675.993
Goldfield, at southeast corner of Crook Avenue and alley between Main and Columbia streets, in 6-foot stone post set 3 feet in ground; aluminum tablet stamped "B 1905 1 H" (C. & G. S. b. m. J_{18})	5,677.731
NOTE.—The original disk has been broken off with the top of the post, The point used as the new bench mark was the bottom of the original drill hole and is probably about 4 inches below the original bench mark.	
Goldfield, in west face of Goldfield Hotel; red-metal disk (C. & G. S. b. m. K_{18})	5,688.998
Goldfield, in south face of county courthouse built in 1907; bronze tablet stamped "U. S. G. S." (C. & G. S. b. m. L_{18})	5,700.835

From Goldfield south along Las Vegas & Tonopah R. R. to Bonnie Claire.

Columbia, 3.5 miles south along tracks of Las Vegas & Tonopah R. R. from Tonopah and Goldfield R. R. crossing, 0.3 mile south of the station signboard of Red Rock, 100 meters south of switch stand near end of section 21 of railroad, 10 meters west of track; U. S. G. S. iron post, unmarked (C. & G. S. b. m. M_{18})	5,803.128
Columbia, 7 miles south of, 0.3 mile south of milepole 189, near point of curvature of a curve south of a quarter-mile tangent, 30 meters west of and 3 meters lower than track, on top of iron post; red-metal disk (C. & G. S. b. m. N_{18})	5,429.832
Columbia, 11 miles south of, 3.5 telegraph poles north of milepole 185 and 15 meters west of track, in line with telegraph poles, on top of iron post; red-metal disk (C. & G. S. b. m. O_{18})	5,076.181
Columbia, 14 miles south of, 8 meters south of milepole 182, 75 meters north of road crossing, 15 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. P_{18})	4,864.134
Ralston, in concrete foundation of northeast pillar of railroad well derrick; in top of stone post, bottom of square hole (C. & G. S. b. m. Q_{18})	4,749.082
Ralston, 3 miles south of, 20 meters north of milepole 177, 15 meters west of track, in line with telegraph poles, on top of iron post; red-metal disk (C. & G. S. b. m. R_{18})	4,714.305
Ralston, 6 miles south of, 3 meters north of ninth telegraph pole south of milepole 174, 15 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. S_{18})	4,683.150
Ralston, 9 miles south of, near first telegraph pole south of milepole 171, 20 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. T_{18})	4,592.884
Wagner, 1 mile south of, 10 meters east of old Bull Frog Goldfield R. R. track, 350 meters east of milepole 168 on the Las Vegas & Tonopah R. R. track, 200 meters east of large boulders on small knoll; red-metal disk on top of iron post (C. & G. S. b. m. U_{18})	4,562.219
Goldfield, 2 miles north of Tonopah Lumber Co.'s station, 8 feet east of summit, 170 meters west of Bullfrog Goldfield R. R. track, near milepole 108, opposite small wooden culvert under track, about 600 meters north of road crossing; iron post marked "U. S. G. S. 16-54." (C. & G. S. b. m. V_{18})	4,344.666

	Feet.
Wagner, 7 miles south of, 100 meters south of milepole 110 (B. G R. R.), 500 meters east of milepole 162 on the Las Vegas & Tonopah R. R. track, 10 meters west of the Bullfrog Goldfield track, near one of two large telegraph poles in that section of the line; on top of iron post; red-metal disk (C. & G. S. b. m. W_{15})	4,244.253
Bonnie Claire station, 3 miles north of (B. G. R. R.), 300 meters south of milepole 113, 20 meters west of track, 0.5 mile east of milepole 159 of the Las Vegas & Tonopah R. R., in stone post; red-metal disk (C. & G. S. b. m. X_{15})	4,083.004
Bonnie Claire. 20 meters north of station, on northeast footing of ruined water tank of Bullfrog Goldfield R. R., on steel foot plate; center of an outlined square (C. & G. S. b. m. Y_{15})	3,953.991
Bonnie Claire, 150 meters south of old station building of Bullfrog Goldfield R. R., 95 meters west of track, 60 meters north of an east-west road, in stone post; red-metal disk (C. & G. S. b. m. Z_{15})	3,958.913
Bonnie Claire, near, 1.75 miles south of junction of Bullfrog Goldfield R. R. and Las Vegas & Tonopah R. R., 5 meters north of milepole 119, 15 meters west of tracks, in stone post; red-metal disk (C. & G. S. b. m. A_{16})	3,954.930
Bonnie Claire, 5.5 miles south of, 3 meters north of milepole 122, 15 meters west of Bullfrog Goldfield R. R. tracks, in stone post; red-metal disk (C. & G. S. b. m. B_{16})	3,961 262

From State line east along road to Lida. (Precise leveling by R. A. Farmer in 1905.)

Forks of road to Oasis, 6 miles east of, 0.2 mile south of lone yucca tree, 30 feet north of road to Goldfield; iron post stamped "B F 1905 12 5306"	5,300.117
Forks of road to Oasis. 7 miles east of, near west end of Palmetto Canyon, 60 feet south of road to Goldfield, on highest point of rock 2 by 3 by 4 feet; chiseled circle; rock painted "U. S. G. S. B. M. 33"	5,406.82
Palmetto, 6 miles west of, 100 feet north of Goldfield road, on highest point of 4 by 3 by 1 foot rock; hub, large boulder 10 feet north painted "U. S. G. S. B. M. 34"	5,530.89
Palmetto, 3 miles west of, 5 feet north of Goldfield road, at foot of rocky cliff, in mass of scaly rock; tablet stamped "B F 1905 13 5884"	5,877.809
Palmetto, opposite saloon; iron post stamped "B F 1905 14 6168"	6,162.197
Palmetto, 2 miles east of, 0.5 mile north of deserted mill, 40 feet south of Goldfield road, on highest point of rock 12 by 8 by 6 inches; hub	6,339.40
Indian Springs, 1.2 miles west of, 30 feet north of Goldfield road, 100 feet west of point where road curves around spur of hill; iron post stamped "B F 1905 15 6624"	6,617.911
Summit between Lida and Indian Springs, 10 feet north of Goldfield road; iron post stamped "B F 1905 16 7409"	7,402.673
Lida, 3 miles west of, 30 feet north of Goldfield road; iron post stamped "B F 1905 17 6869"	6,863.386
Lida, 1 mile west of, 50 feet north of Goldfield road, on highest point of rock 4 by 2 by 1 foot; hub, rock painted "U. S. B. M. 47" and marked by rock monument	6,386.06
Lida, west end of Main Street, 30 feet east of well; iron post stamped "B F 1905 18 6189"	6,182.965

LIDA 1° QUADRANGLE (EAST HALF).

From Lida south via Stewart Mill to California-Nevada State line. (Primary leveling by Homer Hadley in 1905 and L. F. Biggs in 1907.)

	Feet.
Tule Spring, 300 feet south of saloon, at junction of roads, in large boulder; tablet stamped "5607 B 1907 B"	5,602.447
Sand Spring, 4 miles north of, 200 feet east of road, at State line monument 82; top of post	3,735.714

From Lida east along road to fork east of county line, thence southeast to Seattle well.

Lida, 1 mile east of, 100 feet north of creek, west end of canyon, 30 feet north of road, at foot of bluff, in limestone; aluminum tablet stamped "9"	6,030.545
Eagle City, 300 feet north of well, 125 feet north of road, in limestone ledge; aluminum tablet stamped "8"	5,699.922
Eagle City, 1.8 miles east of, 10 feet south of junction of Bullfrog-Lida roads, in large boulder; aluminum tablet stamped "7"	5,396.805
Eagle City, 4.8 miles east of, 12 feet north of road, on south side of Mount Jackson, at point where road makes sharp turn to left toward opposite side of valley, on small ridge; iron post stamped "10"	5,026.245
Eagle City, 6.8 miles east of, opposite mouth of canyon, east side of Mount Jackson, at intersection of Gold Mountain trail with road, 15 feet north of road; iron post stamped "11"	4,882.619
Eagle City, 10.8 miles east of, 20 feet east of road, 300 yards east of small knoll with large boulders on tap, above wagon road; iron post stamped "12"	4,769.880
Eagle City, 13.8 miles southeast of, 20 feet east of small ravine, 10 feet north of road; iron post stamped "13 4771"	4,767.260
Eagle City, 16.8 miles southeast of, 10 feet north of road, 50 feet west of small deep ravine, 300 feet north of large yucca tree in bottom of ravine; iron post stamped "14"	4,734.704
Eagle City, 19 miles southeast of, on summit of junction of Lida and Bullfrog road with Goldfield and Bullfrog stage road, 50 feet east of road, on ledge; aluminum tablet stamped "15"	4,689.730
Goldfield & Tonopah Lumber Co. station, 2 miles north of, 8 feet east of summit; iron post stamped "16"	4,344.666
Greens Well, 200 feet north of, at fork of road to Thorp's mill; iron post stamped "17"	4,128.144
Montana stage station, 2 miles north of, 15 feet west of road; iron post stamped "18"	4,022.274
Summerville stage station, 150 feet north of well, at forks of road to Thorp's mill; iron post stamped "19"	3,950.434
Summerville, 3.2 miles south of, near south end of barren alkali flat; iron post stamped "20"	3,942.134
Summerville, 6.2 miles south of, 40 feet east of road, on edge of low ridge running parallel with road; iron post stamped "21"	3,947.221
Seattle Well, 1.2 miles south of, 20 feet east of road; iron post stamped "22"	4,045.696

From road junction east of Eagle City northeast to Goldfield.

Wilsons Well, 4.7 miles south of, 12 feet west of road, 0.5 mile northwest of foot of Jackson Mountain, where dim road leads to east; iron post stamped "6"	5,192.636

	Feet.
Wilsons Well, 1 mile south of, 25 feet east of road; iron post stamped "5"	5,211.627
Halfway station, 3.2 miles south of, 210 feet east of road, on south edge of small wash, in boulder; aluminum tablet stamped "4"	5,328.812
Halfway station, 250 feet south of, 30 feet west of road; iron post stamped "3"	5,553.618
Goldfield, 8.2 miles south of, 12 feet west of road, in edge of rock slide at foot of high bluff, 300 feet east of a rock ledge which is 100 feet in diameter and stands in valley, in boulder; aluminum tablet stamped "2"	5,665.910
Goldfield, 5 miles south of, 100 feet east of wagon road, 200 yards north of point where wagon road intersects automobile road, 30 feet west of wash, in boulder 3 by 3 by 2 feet; aluminum tablet stamped "1"	5,518.798
Goldfield, 1.8 miles southeast of, on first summit crossed by Goldfield-Lida road, 50 feet south of road, 10 feet northwest of telegraph pole; iron post stamped "B 1905 0 H"	6,083.091
Goldfield, at southeast corner of Crook Avenue and alley between Main and Columbia streets, in 6-foot stone post set 3 feet in ground; aluminum tablet stamped "B 1905 1 H"	5,677.731

From Goldfield to Diamondfield and return.

Goldfield, 2.4 miles north of, along Tonopah road, 75 feet east of road, in boulder; aluminum tablet stamped "5493 B 1905 H"	5,486.232
Diamondfield, 2 feet east of northeast corner of post office; iron post stamped "B 1905 3 H"	5,640.891
Diamondfield, No. 2 Daisy Bell mine, 160 feet south of southwest corner claim post, in highest surface of malpais rock; aluminum tablet stamped "B 1905 4 H"	6,008.863
Diamondfield, Loc Non Connaugh Lass mine, 200 feet west of claim post, on top of low ridge, in boulder; aluminum tablet stamped "1905 H 5"	5,809.380

From point 1.8 miles south of Goldfield along south edge of malpais bluff, thence north to Goldfield ice factory and Goldfield.

Goldfield, 1.8 miles south of, on west side of first large draw west of Goldfield-Lida trail, near mass of malpais rock, in boulder, aluminum tablet stamped "1905 H 6"	6,271.311
Goldfield, 1.7 miles northwest of, 50 feet south of road to city dump; iron post stamped "H 7 1905"	5,749.283
Goldfield, 1.2 miles northwest of, 1,000 feet north of station, opposite transit station 1455, 100 feet west of center line of railroad; paint point on cropping boulder, marked "U. S. B. M." (Railroad elevation 5,701.04 feet)	5,640.92

From Goldfield north along Tonopah stage road to point near Gold Mountain Mining Co.'s plant.

Goldfield, 4.7 miles north of, 20 feet east of road, 400 feet east of telephone line; iron post stamped "1 5346"	5,339.320
Goldfield, 8.7 miles north of, in forks of road, on north bank of deep ravine, 500 feet north of old well in bottom of ravine; iron post stamped "2 5114"	5,107.283
Ramseys Well, 150 feet southwest of, at southeast corner of restaurant; iron post stamped "3 4995"	4,988.373

	Feet.
Ramseys Well, 3.5 miles north of, 30 feet west of road, on north side of deep ravine; iron post stamped "4 5187"	5,180.134
Ramseys Well, 5.5 miles north of, 0.2 mile south of forks of road to Klondike, 250 feet east of road, on west end of twin buttes; aluminum tablet stamped "5 5403"	5,395.413
Gold Mountain Mining Co.'s plant, 1.3 miles south of, 30 feet south of road, in middle of valley, 1 mile south of summit; iron post stamped "6 5754"	5,746.738

LOVELOCKS QUADRANGLE (includes Rochester Special quadrangle).

[Latitude 40°–40° 30′; longitude 118°–118° 30′.]

From Rye Patch southwest along Southern Pacific R. R. to Toy. (Precise leveling by U. S. Coast and Geodetic Survey.)

Rye Patch, 1.7 miles east of, at railroad mileage 367.7, south of track, on top surface of east concrete abutment of small bridge under eastbound track; top of roundheaded iron bolt, Southern Pacific R. R. b. m. (C. & G. S. b. m. L_T) (S. P.)	4,251.740
Rye Patch, 30 meters north of milepole 366, 49 meters north of track, 35 meters south of line fence, 20 meters east of freight house, in cement or stone post, red-metal disk; (C. & G. S. b. m. M_T)	4,251.468
Rye Patch, at railroad mileage 365.4, in top surface of south head wall of concrete culvert 365C; top of roundheaded iron bolt, Southern Pacific R. R. b. m. (C. & G. S. b. m. N_T) (S. P.)	4,246.022
Zola, 2 miles east of, in top surface of south head wall of culvert 363C; top of a roundheaded iron bolt, Southern Pacific R. R. b. m. (C. & G. S. b. m. O_T)	4,264.198
Zola, 0.3 mile east of, at railroad mileage 361.7, 46 meters south of Southern Pacific R. R. track, 1 meter north of south line fence, in cement or stone post; red-metal disk (C. & G. S. b. m. P_T)	4,231.803
Oreana, at railroad mileage 357.9, on top surface of southeastern one of four central pillars under railroad water tank; red-metal disk (C. & G. S. b. m. Q_T)	4,157.957
Woolsey, at railroad mileage 353.6, 150 meters west of east end of siding, on top surface of south headwall of stone culvert 353D, 10 meters south of track and 1 meter below it; red-metal disk (C. & G. S. b. m. R_T)	4,099.060
Kodak, opposite station sign, on south side of track, 100 meters west of milepole 349, 1 meter north of south line fence, in cement or stone post; red-metal disk (C. & G. S. b. m. S_T)	4,005.858
Lovelocks, 2.5 miles east of, 0.5 meter north of milepole 347, 16.5 meters north of track, in cement or stone post; red-metal disk (C. & G. S. b. m. T_T)	3,993.240
Lovelocks, 2 miles east of, at railroad mileage 346.4 on south end of east abutment of Southern Pacific R. R. bridge 346B over the irrigation canal; red-metal disk, (C. & G. S. b. m. U_T)	3,990.642
Lovelocks, 50 meters east of station, 60 meters south of track, on north side of northwestern concrete pillar under railroad water tank; red-metal disk (C. & G. S. b. m. V_T)	3,976.262
Perth, opposite station sign at railroad mileage 340.5 in second line of telegraph poles, 30 meters south of track, in cement or stone post; red-metal disk (C. & G. S. b. m. W_T)	3,949.027
Granite Point, 20 meters west of milepost 336, at edge of a hummock, 100 meters west of section foreman's house, 60 meters north of track, 2.5 meters south of line fence, in cement or stone post; red-metal disk; (C. & G. S. b. m. X_T)	3,918.408

	Feet.
Toulon, at railroad mileage 331.8, 11.4 meters north of station sign, 18.5 meters north of track, in first line of telegraph poles, in cement or stone post; red-metal disk (C. & G. S. b. m. Y_7)	3,929.605
Toy, 30 meters west of station, 28.5 meters north of track, 0.9 meter outside of west fence inclosing section foreman's house, 9.6 meters north of southwest angle of inclosure, in cement or stone post; red-metal disk (C. & G. S. b. m. Z_7)	3,930.271

From Oreana east 3.5 miles along Southern Pacific R. R. to crossing of Lovelocks water pipe. (Leveling by L. F. Biggs in 1916 checked approximately by water works line from Lovelocks.)

Oreana, on top surface of southeast one of four central pillars under Southern Pacific R. R. (U. S. C. & G. S. b. m. Q_{17})	4,157.957
Oreana, in front of station; top of rail (U. S. C. & G. S.)	4,156.29
Oreana, 1 mile northeast of, 15 feet north of track, in base of telephone pole; spike, painted "U. S. 4,169 B. M."	4,169.02
Oreana, 3 miles northeast of, 30 feet north of switch to Limerick Canyon; iron post stamped "4,302 1 1916"	4,301.783
Oreana, 3.5 miles northeast of, 300 feet northeast of crossing of Southern Pacific R. R. and Lovelocks water pipe; top of stake (Lovelocks water works bench mark marked "U. S. C. & G. S. Lovelocks 4,327.16")	4,326.89

From point 3.5 miles east of Oreana along highways northeast and east to Rochester, thence south and west to point of beginning.

Oreana, 4.8 miles northeast of, 50 feet west of switch, at mouth of Limerick Canyon; summit of flat boulder, painted "U. S. 4,462 B. M."	4,461.76
Oreana, 5.9 miles northeast of, 1 mile east of mouth of Limerick Canyon, 10 feet east of road; summit of boulder, painted "U. S. 4,712 B. M."	4,711.49
Oreana, 7 miles east of, in Limerick Canyon, 600 feet west of cottonwood trees, at spring, 10 feet south of road, in top of boulder; bronze tablet stamped "5,026 2 1916"	5,026.051
Rochester, 4 miles west of, south edge of road, on rhyolite ledge; paint point, painted "U. S. 5,327 B. M."	5,327.24
Rochester, 3 miles west of, in Limerick Canyon, 50 feet east of trees at spring; bronze tablet in face of rhyolite ledge, stamped "5674 5 1916"	5,673.783
Rochester, 2 miles west of, on northeast corner of Sterrick Concentrating machine, painted "U. S. 5,806 B. M."	5,806.13
Rochester, 1 mile west of, west edge of road at summit between Rochester and Limerick canyons, painted on rock "U. S. 6,274 B. M."	6,274.92
Rochester, 200 feet southeast of post office, 100 feet south of road; iron post stamped "6,237 6 1916"	6,237.110
Rochester, 0.5 mile south of, 40 feet west of trail that runs through Saddlebit, Rochester, and Weaver canyons; bronze tablet in rhyolite ledge, stamped "6,670 7 1916"	6,671.046
Rochester, 1 mile south of, east edge of trail where it crosses gulch; top of boulder, painted "U. S. 6,258 B. M."	6,258.16
Rochester, 1.5 miles south of, in Weaver Canyon, 60 feet north of two tents, 100 feet east of spring; top of boulder, marked "U. S. 5,957 B. M."	5,957.28

Rochester, 2.5 miles south of, in Weaver Canyon, 80 feet north of tent, 80 feet west of spring, top of rock, marked "U. S. 5,650 B. M." 5,650.39

Rochester, 3.5 miles south of, in Weaver Canyon, 4 miles north of power line crossing, east side of gulch and road; bronze tablet in rhyolite ledge, stamped "5,506 8 1916" 5,505.876

Packard station, 1 mile south of, 200 feet north of saddle, 300 feet east of road forks; top of white 4 by 4 inch stake marked "U. S. 5,420 B. M." 5,420.52

Power Rochester, 1 mile west of, 20 feet south of track at Packard station; iron post stamped "5,257 4 1916" 5,256.749

Packard station, 1.4 miles west of, west end of trestle; nailhead painted "U. S. 4,917 B. M." 4,917.11

Oreana, 6.7 miles east of, 50 feet west of bridge across Big Draw, 50 feet south of track; iron post stamped "4,749 3 1916" 4,749.027

Oreana, 4.9 miles east of, 10 feet south of track; spike in base of telephone pole, painted "U. S. 4,480 B. M." 4,480.52

MILL CITY QUADRANGLE.

[Latitude 40° 30′–41°; longitude 118°–118° 30′.]

From Dodon southwest along Southern Pacific R. R. to Valery. (Precise leveling by U. S. Coast and Geodetic Survey.)

Dodon, 4 telegraph poles west of milepost 393, opposite station sign, 59.8 meters south of track, 1.6 meters north of south fence, in cement or stone post; red-metal disk (C. & G. S. b. m. F_7) 4,252.623

Mill City, 175 meters west of station, in second line of telegraph poles, 0.6 meter east of east fence around a yellow frame building, 37.6 meters south of track, in cement or stone post; red-metal disk (C. & G. S. b. m. G_7) 4,224.033

Imlay, on top of northeastern concrete pillar under railroad water tank; red-metal disk (C. & G. S. b. m. H_7) 4,194.959

Humboldt, on south side of concrete foundation under yellow-painted building of Southern Pacific R. R. opposite water tank, about 75 meters west of station, 25 meters north of track; red-metal disk (C. & G. S. b. m. I_7) 4,232.423

Valery, 300 meters east of station sign, 200 meters west of milepole 373, 60 meters north of track, 1 meter south of north line fence, 4 meters east of a gate in fence, in cement or stone post; red-metal disk (C. & G. S. b. m. J_7) 4,278.548

Valery, 3 miles west of, at railroad mileage 369.9, in top surface of south head wall of culvert under eastbound track of Southern Pacific R. R.; top of round-headed iron bolt, Southern Pacific R. R. b. m. (C. & G. S. b. m. K_7) 4,245,949

PALISADE QUADRANGLE.

[Latitude 40° 30′–41°; longitude 116°–116° 30′.]

From Vivian west along Southern Pacific R. R. to Beowawe. (Precise leveling by U. S. Coast and Geodetic Survey.)

Vivian, 65.9 meters south of station sign, on right of way of Southern Pacific R. R., 59.6 meters south of main track, 1.4 meters north of line fence between Southern Pacific R. R. and Western Pacific Ry., 16.3 meters north of Western Pacific track, 9.3 telegraph poles east of Western Pacific milepole 647, 2.8 telegraph poles west of Southern Pacific milepole 539, in top of stone post; bottom of square hole (C. & G. S. b. m. S_8) 4,916.893

Carlin, in grass plot halfway between Southern Pacific Hotel and Southern Pacific R. R. station, 1 meter south of front fence, in top of stone post; bottom of square hole (C. & G. S. b. m. T_5) 4,896.834

Carlin, 2 miles west of, 100 meters west of crossing 534A, 41 meters north of milepost 534, 56 meters north of Southern Pacific R. R. track, 1.7 meters south of north line fence, in top of stone post; bottom of square hole (C. & G. S. b. m. U_5) 4,880.075

Tyrol, approximately at milepole 532.6, 7.5 meters east of station sign, 13.7 meters east of Southern Pacific R. R. main track, 1.4 meters west of east line fence (C. & G. S. b. m. V_5) 4,872.592

Palisade, 75 meters west of west end of Southern Pacific R. R. bridge No. 16 over Humboldt River, 30 meters east of tunnel No. 1, 13.7 meters north of track, 14.5 meters south of north line fence, 1 meter east of a telegraph pole, in top of stone post; bottom of square hole (C. & G. S. b. m. W_5) 4,843.458

Gerald, near fence corner at west end of siding, 8 telegraph poles west of station sign, 29.2 meters south of track, 1 meter from south line of fence, in top of stone post; bottom of square hole (C. & G. S. b. m. X_5) 4,820.079

Harney, 2.4 telegraph poles east of milepole 518, 6.6 poles west of station sign, 30 meters north of track, 0.6 meter south of fence, in top of stone post; bottom of square hole (C. & G. S. b. m. Y_5) 4,774,282

Cluro, 3.3 telegraph poles east of station sign and of Southern Pacific R. R. milepole 514, 5.3 meters south of second telegraph pole west of Western Pacific Ry. milepole 623, 26.8 meters north of Southern Pacific track, 34.5 meters south of north line fence, 19.1 meters south of the Western Pacific Ry. track, in top of stone post; bottom of square hole (C. & G. S. b. m. Z_5) 4,730.932

Beowawe, in top surface of concrete base of signal tower 510.1 at east end of siding; red-metal disk (C. & G. S. b. m. A_6) 4,699.997

Beowawe, in top surface of concrete foundation (center pier) of Western Pacific Ry. water tank; red-metal disk (C. & G. S. b. m. B_6) 4,698.849

Beowawe, 25 meters west of west end of Southern Pacific R. R. station, 26 meters south of Western Pacific Ry. track, 19.8 meters north of Southern Pacific R. R. track, in top of stone post; bottom of square hole (C. & G. S. b. m. C_6) 4,693.849

PANACA QUADRANGLE (NORTHEAST QUARTER OF PIOCHE QUADRANGLE).

[Latitude 37° 30′–38°; longitude 114°–114° 30′.]

From Caliente along San Pedro, Los Angeles & Salt Lake R. R. northeast to Del Mues, thence northwest and southwest to Pioche, thence west along highway to Point mine. (Primary leveling by D. S. Birkett in 1914–15.)

Caliente, at corner of Culverwell Avenue and Market Street, on face of public-school building toward Culverwell Avenue, 1.8 meters above ground; red-metal disk (C. & G. S. b. m. Q_2) 4,402.200

Caliente, 1.1 miles north of railroad station, 30 feet south of road crossing, on east side of Pioche branch track, in base of telephone pole; railroad spike marked "U. S. B. M. 4434" 4,434.46

Caliente, 2 miles north of, 400 feet north of milepost 2, in base of telegraph pole; railroad spike marked "U. S. B. M. 4439" 4,438.85

Caliente, 3 miles north of, on Pioche branch, 85 feet south of milepost 3, 15 feet east of track, in large boulder; aluminum tablet stamped "4464 1914 1" 4,463.607

	Feet.
Caliente, 4 miles north of, in base of milepost 4; railroad spike marked "U. S. B. M. 4491"	4,490.91
Caliente, 5 miles north of, in base of milepost 5; railroad spike marked "U. S. B. M. 4506"	4,506.28
Caliente, 6 miles north of, 45 feet south of section house, 150 feet south of milepost 6, 50 feet east of track; iron post stamped "4547 1914 2"	4,546.792
Caliente, 7 miles north of, 400 feet north of milepost 7, 175 feet north of trestle 7 A, in telegraph pole; railroad spike marked "U. S. B. M. 4571"	4,570.51
Caliente, 8 miles north of, 200 feet north of milepost 8, in base of telegraph pole; railroad spike marked "U. S. B. M. 4593"	4,593.06
Panaca, 5.4 miles south of, 800 feet north of milepost 9, on north end of trestle 9 A, in east end of bulkhead; railroad spike marked "U. S. B. M. 4622"	4,622.28
Panaca, 4.5 miles south of, in base of milepost 10; railroad spike marked "U. S. B. M. 4650"	4,649.57
Panaca, 4.2 miles south of, 0.3 mile north of milepost 10, 120 feet west of railroad track, on south side of private gate; iron post stamped "4655 1914 3"	4,654.996
Panaca, 3.5 miles south of, 200 feet north of milepost 11, in telegraph pole; railroad spike marked "U. S. B. M. 4666"	4,666.12
Panaca, 2.5 miles south of, 400 feet north of milepost 12, in base of telegraph pole; railroad spike marked "U. S. B. M. 4680"	4,680.10
Panaca, 1.5 miles south of, 200 feet south of milepost 13, in telegraph pole; railroad spike marked "U. S. B. M. 4693"	4,693.01
Panaca, 0.55 mile south of, 175 feet south of milepost 14, on east side of south end of trestle 13 C; top of drift bolt painted white, marked "U. S. B. M. 4727"	4,727.17
Panaca, 230 feet north of signboard, 100 feet south of road crossing, 50 feet east of railroad track; iron post stamped "4733 1914 4"	4,733.136
Milepost 15; top of rail opposite	4,732.6
Panaca, 1.4 miles north of, 200 feet south of milepost 16, in base of telegraph pole; railroad spike marked "U. S. B. M. 4767"	4,766.77
Panaca, 2.75 miles north of, 1,300 feet north of milepost 17, 50 feet east of track, on top of boulder 4 feet high; bronze tablet stamped "4832 1914 5"	4,831.925
Panaca, 3.5 miles north of, 80 feet north of milepost 18, on west side of south end of bridge 18 A; top of drift bolt painted white, marked "U. S. B. M. 4885"	4,885.15
Panaca, 4.5 miles north of, 200 feet north of milepost 19, in base of telegraph pole; railroad spike marked "U. S. B. M. 4952"	4,951.40
Del Mues, 1.5 miles south of, in base of milepost 20, railroad spike marked "U. S. B. M. 5018"	5,018.06
Del Mues, 1.1 miles south of, 50 feet north of present location of water tank, 20 feet west of track, in concrete foundation of old tank; bronze tablet stamped "5057 1914 6"	5,056.296
Del Mues, 60 feet west of signboard, in base of telegraph pole; railroad spike marked "U. S. B. M. 5108"	5,107.71
Del Mues, 0.35 mile northwest of, in center of trestle 21 C; top of rail	5,117.0
Del Mues, 0.55 mile northwest of, in base of milepost 22, railroad spike marked "U. S. B. M. 5121"	5,120.78

	Feet.
Del Mues, 1.6 miles northwest of, in base of milepost 23; railroad spike marked "U. S. B. M. 5175"	5,174.34
Del Mues, 2.6 miles northwest of, 165 feet north of milepost 24, 15 feet west of track, on top of large boulder; bronze tablet stamped "5267 1915 7"	5,266.609
Del Mues, 3.5 miles northwest of, opposite milepost 25, 20 feet west of track, in base of back side of emergency rail stand; railroad spike marked "U. S. B. M. 5361"	5,360.47
Pioche, 6.9 miles southeast of, in base of milepost 26; railroad spike marked "U. S. B. M. 5445"	5,444.99
Pioche, 5.9 miles southeast of, in base of milepost 27; railroad spike marked "U. S. B. M. 5493"	5,492.48
Trestle 27 B, 200 feet north of, at road crossing; top of rail	5,462.4
Pioche, 3 miles east of, 3.9 miles south of railroad station, 35 feet south of milepost 29, 60 feet east of railroad, 40 feet south of wagon road; iron post stamped "5435 1915 8"	5,434.636
Pioche, 2.6 miles east of railroad station along track, in base of milepost 30; railroad spike marked "U. S. B. M. 5457"	5,456.70
Pioche, 1.6 miles northeast of, along railroad, in base of milepost 31; railroad spike marked "U. S. B. M. 5474"	5,473.29
Signpost "Pioche 1 mile"; top of rail opposite	5,562.9
Pioche, opposite operator's window in railroad station; top of nearest rail	5,725.2
Pioche, on water tank of San Pedro, Los Angeles & Salt Lake R. R., on north side of concrete foundation; bronze tablet stamped "5725 1915 19"	5,724.452
Pioche, 0.7 mile northwest of railroad station, at road crossing, 15 feet north of Prince Consolidated Mining Co.'s railroad track, in base of railroad crossing signpost; railroad spike marked "U. S. B. M. 5738"	5,737.53
Pioche, 2.4 miles northwest of, 0.3 mile southeast of crossing of Prince Consolidated Mining Co.'s railroad and Jackrabbit mine railroad, at point where lower road to Bristol Pass crosses Prince Consolidated Mining Co.'s railroad, 12 feet southwest of wagon road, 30 feet south of railroad; iron post stamped "5899 1915"	5,898.320
Pioche, 2.6 miles northwest of, at point where Prince Consolidated Mining Co.'s railroad crosses Jackrabbit mine railroad; top of rail	5,906.4
Pioche, 3.8 miles northwest of, at crossing of wagon road to the "Point" and Prince Consolidated Mining Co.'s railroad, in base of railroad crossing signpost; railroad spike scribed "U. S. B. M. 6018"	6,017.27
Pioche, 4.3 miles northwest of, 400 feet south of forks of three roads leading to Bristol Pass, Stampede Pass, and Prince Consolidated mine, 30 feet west of the latter road, about midway between two red buildings belonging to the Point mine; iron post stamped "6066 1915 20"	6,065.893

From Panaca southwest along highways to Bennet Springs.

Panaca, 5.9 miles west of, 3.8 miles east of Bennet Springs, about 2.5 miles up the wash from railroad track, at foot of third conspicuous point on south side above the railroad, 140 feet south of road; iron post stamped "4790 1915 21"	4,789.449

	Feet.
Bennet Springs, 2.4 miles east of, on point between two main forks of wash, 140 feet north of road, in base of 8-inch cedar tree; railroad spike marked "U. S. B. M. 4929"	4,928.68
Bennet Springs, 1.6 miles east of, 500 feet west of point where road leaves wash and mounts bench, 90 feet north of road, in base of juniper tree; railroad spike marked "U. S. B. M. 5033"	5,033.21
Bennet Springs; surface of artificial pond February 23, 1915	5,259.1
Bennet Springs, 200 feet west of old house, 75 feet south of road, about 350 feet northwest of main spring, at foot of slope; iron post stamped "5276 1915 22"	5,276.013

From point 3 miles east of Pioche along highway northeast to Little Summit, thence southeast to Modena, Utah. (Utah portion in another list.)

Pioche, about 4.5 miles east of, 1.4 miles east of railroad crossing, near top of bench, 3 feet south of Rose Valley road, on top of boulder; painted circle marked "U. S. B. M. 5477"	5,476.25
Pioche, about 5.5 miles east of, on top of small ridge, 25 feet south of road, in base of juniper stump; railroad spike scribed "U. S. B. M. 5585"	5,584.29
Rose Valley School, 4.3 miles west of, 120 feet south of road, about 12 feet above road level, in base of juniper tree; railroad spike scribed "U. S. B. M. 5713"	5,712.76
Rose Valley School, 3.1 miles west of, on plateau, 75 feet east of fork in road, 20 feet south of road; iron post stamped "5868 1915 9"	5,867.598
Rose Valley School, 1.6 miles west of, on east edge of plateau where road turns down hill, 6 feet north of road, in top of boulder; bronze tablet stamped "5906 1915 10"	5,905.660
Rose Valley School, 1 mile west of, 15 feet south of road, in base of cedar stump; railroad spike marked "U. S. B. M. 5699"	5,698.20
Rose Valley School, 150 feet northeast of, 80 feet north of Meadow Valley Creek, on north side of road, in top of large boulder; bronze tablet stamped "5396 1915 11"	5,395.699
Rose Valley School, 0.87 mile southeast of, near bottom of hill, where road turns up, 10 feet east of road; top of boulder marked "U. S. B. M. 5379"	5,378.23
Rose Valley School, 1.2 miles southeast of, about 150 feet above level of Rose Valley, 40 feet north of road; top of large boulder marked "U. S. B. M. 5558"	5,557.48
Rose Valley School, 1.5 miles east of, about 250 feet above level of Rose Valley, 4 feet north of road, in top of large cubical boulder; bronze tablet stamped "5641 1915 12"	5,640.916
Rose Valley School, 2.1 miles east of, near top of first bench, 2 feet south of road, in base of cedar tree; railroad spike marked "U. S. B. M. 5850"	5,849.98
Rose Valley School, 3.1 miles east of, on hogback slope where road turns off down to Eagle Valley, on south side of road, in base of juniper tree; railroad spike marked "U. S. B. M. 5989"	5,988.40
Rose Valley School, 4.1 miles east of, on hogback ridge, 12 feet north of road; iron post stamped "6066 1915 13"	6,065.868
Rose Valley School, 5.6 miles east of, on sloping plateau, 15 feet south of road, in base of small juniper tree; railroad spike marked "U. S. B. M. 6196"	6,195.26

	Feet.
Rose Valley School, 6.4 miles east of, about 0.2 mile west of road forks, 15 feet south of road, in base of juniper tree; railroad spike marked "U. S. B. M. 6267"	6,266.81
Little Summit, 0.3 mile east of, 350 feet south of fork of Fay and Modena road, in base of cedar tree; railroad spike scribed "U. S. B. M. 6294"	6,293.59
Big Summit, 2.4 miles west of, 0.5 mile east of fork of Modena and Fay roads, 3 feet south of Modena road; top of boulder 4 feet high stamped "6366 1915 14"	6,365.333
Big Summit, 1 mile west of, 225 feet west of dry well, 15 feet north of road, in base of cedar tree; railroad spike scribed "U. S. B. M. 6533"	6,532.24
Big Summit, 10.6 miles east of Rose Valley, 15.1 miles west of Modena, on summit of divide, 15 feet south of road; iron post stamped "6680 1915 15"	6,679.513
Big Summit, 0.75 mile east of, 5 feet north of road, in base of juniper tree; railroad spike marked "U. S. B. M. 6487"	6,486.98
Big Summit, 1.7 miles southeast of, 20 feet south of road, in base of 16-inch juniper tree; railroad spike marked "U. S. B. M. 6341"	6,340.93
Big Summit, 2.5 miles southeast of, 20 feet north of road; top of boulder marked "U. S. B. M. 6231"	6,230.62
Big Summit, 2.9 miles southeast of, 3.3 miles northwest of fork of Fay and Rose Valley roads, 0.55 mile northwest of old road forks leading to north, 170 feet northeast of Rose Valley road, about 20 feet above level of wash on hillside, 15 feet west of juniper tree scribed "B. M.," in top of boulder 18 inches high; bronze tablet stamped "6207 1915 16"	6,207.054
Big Summit, 3.8 miles southeast of, 2.4 miles northwest of fork of Fay and Rose Valley roads, 0.3 mile southeast of fork of Rose Valley road and old road leading north, 6 feet south of road; top of boulder marked "U. S. B. M. 6105"	6,105.21
Big Summit, 4.6 miles southeast of, 1.6 miles northwest of fork of Fay and Rose Valley roads, 125 feet northeast of Rose Valley road, on point of slope about 4 feet above level of wash; top of boulder marked "U. S. B. M. 6034"	6,034.17

From Pioche northwest along highway 4.8 miles. (Primary leveling by Roscoe Reeves in 1915.)

Pioche, 2.4 miles northwest of, 0.3 mile southwest of crossing of Prince Consolidated Mining Co.'s and Jack Rabbit mine railroads, 12 feet southwest of wagon road, 30 feet south of railroad; iron post stamped "5,899" (Birkett's 1914–15 line)	5,898.320
Pioche, 3.4 miles northwest of, 1.04 miles north of railroad crossing, 50 feet west of road; copper nail in cedar tree, painted "5,864"	5,864.21

At Pioche.

Pioche, on east side of main entrance to Thompson's store, beneath center of show window, on stone sill; chalked cross, painted "6,080"	6,080.06
Pioche, 0.5 mile west of, at shops of Amalgamated Pioche Mines & Smelters Corporation, 30 feet south of collar of shaft, on west side of main entrance to room of hoisting engines, at base of southwest brace of derrick support; top of concrete pillar; bronze tablet stamped "6,347"	6,346.857

	Feet.
Pioche, in capstone to main entrance of Lincoln County courthouse, north side of entrance; bronze tablet, stamped "6,064"	6,064.229
Leith, 15 meters west of center line of main track of railroad, on side of concrete section house facing track, 430 meters north of signboard "Leith," 1.6 meters above ground; red-metal disk (C. & G. S. b. m. B_2)	2,933.245
Leith, 1.3 miles north of, on southwest end of southeast concrete abutment of railroad bridge 429 B, 100 meters northwest of signboard "Leith one mile," 3.8 meters southwest of center line and 2 meters below top of rail; copper bolt set vertically in cement (C. & G. S. b. m. C_2)	2,997.383
Leith, 3.9 miles north of, in southwest end of southeast concrete abutment of bridge 431 G of railroad, 3.4 meters southwest of center line and 0.5 meter below top of rail; copper bolt set vertically in cement (C. & G. S. b. m. D_2)	3,144.672
Kyle, 28 meters northeast of center line of main track of railroad, directly opposite signboard "Kyle," on east side of highway which crosses tracks at this point, 1.1 meters above top of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. E_2)	3,235.335
Kyle, 1.4 miles north of, set vertically in northeast concrete wall of culvert 434 A of railroad, 7.2 meters northeast of center line and 2.5 meters below top of rail; copper bolt in cement (C. & G. S. b. m. F_2)	3,285.935

PIOCHE QUADRANGLE.

[Latitude 37°–38°; longitude 114°–115°.]

From Carp northeast along San Pedro, Los Angeles & Salt Lake R. R. to Lien. (Precise leveling by U. S. Coast and Geodetic Survey.)

Carp, 15 meters southeast of center line of main track of railroad, in face of concrete section house facing track, 50 meters southwest of telegraph station, 1.6 meters above ground; red-metal disk (C. & G. S. b. m. X_1)	2,589.939
Carp, 70 meters northeast of telegraph station, 20 meters northwest of center line of main track of railroad, in northeast radial plane of circular stone wall of pump well, 0.5 meter above ground, set horizontally in cement; copper bolt (C. & G. S. b. m. Y_1)	2,588.282
Carp, 500 meters northeast of telegraph station at Carp, 25 meters southwest of point of switch at north end of Carp siding and 48 meters northwest of center line of main track of railroad, 17 meters outside of right-of-way fence, 0.6 meter above top of rail, at foot of rocky point, in top of stone post; bottom of square hole (C. & G. S. b. m. Z_1)	2,594.680
St. George, 126 meters south of signboard "St. George," 138.8 meters west of center line of main track of railroad, 107.6 meters west of right of way fence, 1 meter above top of rail opposite bench mark; at foot of cliff above broad sandy wash, in top of stone post; bottom of square hole (C. & G. S. b. m. A_3)	2,695.106
Elgin, 0.3 mile south of telegraph station, directly opposite milepole 438, 22 meters east of center of main track of railroad, 2.5 meters east of right of way fence line near foot of cliffs, in top of stone post; bottom of square hole (C. & G. S. b. m. G_2)	3,450.413

	Feet.
Elgin, 135 meters north of telegraph station, 11 meters east of center line of main track of railroad, on side of concrete section house facing tracks, 1.6 meters above ground; red-metal disk (C. &. G. S. b. m. H_2)	3,466.463
Elgin, 4.9 meters east of center line of track of railroad, on steel base of west one of three southerly tank columns; letters "U. S. B. M." cut in face of concrete pier; chiseled square (C. & G. S. b. m. I_2)	3,464.619
Boyd, 420 meters southeast of station sign "Boyd," 75 meters northwest of point of switch at south end of Boyd siding, 18.2 meters northeast of center line of main track of railroad, 2.5 meters northeast of right of way fence, in line with north fence at highway crossing; red-metal disk on top of iron post (C. & G. S. b. m. J_2)	3,775.800
Boyd, 3.9 miles north of, opposite Carson's ranch, in east wing wall of north concrete abutment of bridge 446 A of railroad, 3 meters east of center line and 3.8 meters north of south face of abutment; copper bolt set vertically in cement (C. & G. S. b. m. K_2)	3,926.442
Stine, 125 meters north of signboard "Stine," 27 meters east of center line of main track of railroad, 1.9 meters outside right of way fence, 2.2 meters north of angle in fence line, 14 meters above top of rail, at the foot of white cliffs opposite power plant of Delamar mine, in top of stone post; bottom of square hole (C. & G. S. b. m. L_2)	4,031.796
Cana, 0.8 mile north of signboard "Stine," 15 meters west of center line of main track of railroad, in face of concrete section house facing track, 1.5 meters above ground; red-metal disk (C. & G. S. b. m. M_2)	4,060.756
Stine, 3.2 miles north of, on southeast concrete wall of culvert 450 D of railroad, 4.1 meters southeast of center line and 1 meter below top of rail; copper bolt in cement (C. & G. S. b. m. N_2)	4,156.189
Etna, 155 meters southeast of center of bridge 453 A, 340 meters southwest of point of switch at northeast end of Etna siding, 48 meters northwest of center line of main track of railroad, 17.5 meters outside right of way fence, 0.4 meter below top of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. O_2)	4,263.321
Caliente, 11.5 meters southeast of center line of main track of railroad, on concrete foundation of railroad station facing track, directly beneath agent's office, 0.3 meter above ground; red-metal disk (C. & G. S. b. m. P_2)	4,389.735
Caliente, at corner of Culverwell Avenue and Market Street, on face of public-school building toward Culverwell Avenue, 1.8 meters above ground; red-metal disk (C. & G. S. b. m. Q_2)	4,402.200
Caliente, on west side of South Spring Street, 294 meters south of center line of main track of railroad, 36 meters west of line (produced) of west face of "company row" of houses on North Spring Street, at foot of wash from hill, 15 meters above railroad track, in top of stone post; bottom of square hole (C. & G. S. b. m. R_2)	4,446.172
Caliente, 50 meters southeast of center line of main track of railroad, on face of Caliente Mercantile Co.'s store on Clover Street, 1.5 meters above ground; red-metal disk (C. & G. S. b. m. S_2)	4,404.713
Caliente, 45 meters southeast of center line of main track of railroad, in face of concrete section house facing track, 1.6 meters above ground; red-metal disk (C. & G. S. b. m. T_2)	4,412.471

	Feet.
Eccles, 41 meters south of center line of main track of railroad, 220 meters west of east end of Eccles siding, in a small niche in high cliff, 1.1 meters above top of rail, in top of iron post; red-metal disk (C. & G. S. b. m. U_2)	4,625.010
Minto, 2 miles northwest of, 3.5 meters east of center line of main track of railroad, on east end of south concrete abutment of bridge 465 B, 0.5 meter below top of rail; copper bolt in cement (C. & G. S. b. m. V_2)	4,715.686
Minto, 30.3 meters southwest of center line of main track of railroad, 30.5 meters from signboard "Minto," near foot of cliffs, 0.2 meter above top of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. W_2)	4,810.666
Big Springs, 6.3 meters west of center line of main track of railroad, 45 meters south of section house, on west wall of stone culvert 470 E. 2.2 meters below top of rail; red-metal disk set vertically (C. & G. S. b. m. X_2)	5,061.971
Islen, 200 meters west of signboard "Islen," 21.1 meters south of center line of main track of railroad, at foot of high white cliffs, 1 meter above top of rail, on top of iron post; red-metal disk (C. & G. S. b. m. Y_2)	5,223.828
Barclay, 0.7 mile east of signboard "Barclay," 15 meters northwest of center line of main track of railroad, directly in front of fence at Wood's ranch (Barclay post office) facing highway, 0.3 meter below top of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. Z_2)	5,332.788
Acoma, 65 meters southwest of station, 10.4 meters northwest of center line of main track, 0.2 meter below top of rail, on top of iron post; red-metal disk (C. & G. S. b. m. A_3)	5,517.899
Acoma, 50 meters northeast of station, 3.9 meters northwest of center of main track, in southwest end of concrete pier of water tank nearest main track; copper bolt in cement (C. & G. S. b. m. B_3)	5,521.124
Acoma, 25 meters northwest of center line of main track of railroad, in face of concrete bunk house toward track, 0.7 meter above top of rail; red-metal disk (C. & G. S. b. m. C_3)	5,526.003
Acoma, 1.8 miles northeast of, 5.8 meters north of center line of main track of railroad, on south wall of stone culvert 483 B, 2 meters below top of rail; bottom of square hole, marked "U. S. B. M." (C. & G. S. b. m. D_3)	5,608.046
Brown, 19 meters southeast of center line of main track of railroad, directly opposite signboard "Brown," 1 meter above top of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. E_3)	5,780.507
Crestline, 29 meters west of center line of main track of railroad, in face of concrete bunk house facing track 1.6 meters above ground; red-metal disk (C. & G. S. b. m. F_3)	5,983.128
Crestline, 23 meters east of center line of main track of railroad, 5 meters north (measured along track) of signboard "Crestline," 0.9 meter above top of rail, in top of stone post; bottom of square hole (C. & G. S. b. m. G_3)	5,984.244
Lien, 19 meters north of center line of main track of railroad, opposite signboard "Lien," 0.8 meter above top of rail, in top of iron post; red-metal disk (C. & G. S. b. m. H_3)	5,803.811

PYRAMID LAKE QUADRANGLE.

[Latitude 40°–40° 30′; longitude 119° 30′–120°.]

Elevations by water leveling along west shore of Pyramid Lake to north end, thence 7 miles along highway to bridge 402, Western Pacific Ry., by General Land Office in 1911.

	Feet.
Symond's ranch, 3 miles southeast of, 300 feet north of prominent limestone point, on low ledge jutting into lake; cross mark witnessed by an arrow	3,869.30
Pyramid Lake, at middle latitude point, water surface:	
July 1, 1911	3,869.1
July 14, 1911	3,869.1
Aug. 8, 1911	3,868.9
Aug. 27, 1911	3,868.4
Sept. 5, 1911	3,868.1
Oct. 10, 1911	3,867.3
NOTE.—The orthometric elevation of this lake is 0.07 foot lower at north end and 0.07 foot higher at south end than the height at middle latitude point.	
Symond's ranch, 0.25 mile southeast of, in forks of road, 175 feet from lake shore, about 200 feet south of meander corner of secs. 35 and 2, Tps. 25 and 26 N., R. 20 E.; iron post stamped "3889"	3,884.108
Symond's ranch, 3 miles north of, 300 feet east of prominent rocky cove, 75 feet from lake shore, near meander corner of secs. 15 and 22, T. 26 N., R. 20 E.; iron post stamped "3886"	3,880.689
Gage No. 7 (a point 125 feet northwest from b. m. No. 7), marked with a circle and the letters U. S. B. M	3,869.04
The Needles, north end of, close to line between Tps. 26 and 27 N. R. 20 E., on south side of sec. 36, on west side of first rocky peak on peninsula, 50 feet from lake shore, set in face of large boulder; bronze tablet stamped "3881"	3,876.640
Pyramid Lake, north end of, about 100 feet west of road along shore of lake, about 300 feet west of corner of secs. 4, 5, 32, and 33, Tps. 27 and 28 N., R. 21 E.; 3-inch iron post	3,887.590
Intersection of roads	3,927
Pyramid Lake, opposite point projecting to east, first point in pass north from lake, on alkali flat; top of rock 1 foot square	3,931.14
Pyramid Lake, 5.6 miles north of, opposite rocky point on divide in pass, 2 feet east of road; cross on boulder	3,965.51
Western Pacific Ry., 1,000 feet east of, 7.3 miles north of Pyramid Lake, about 0.25 mile south of intersection of two passes; on side of road	3,936.71
Bridge 402, near station 7228 of Western Pacific Ry.; top of rail	3,966.0
Bridge 402, 250 feet north of, 50 feet east of Western Pacific Ry.; iron post	3,963.12

RENO QUADRANGLE.

[Latitude 39° 30′–40°; longitude 119° 30′–120°.]

From Clark west along Southern Pacific R. R. to Marmol. (Precise leveling by U. S. Coast and Geodetic Survey.)

Clark, 100 meters east of east end of siding, in top surface of west concrete abutment of bridge 8 over Truckee River; top of a round-headed iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. Z_8)	4,246.173

Ditho, 0.5 mile east of, at railroad mileage 258.1, in top surface of east abutment of bridge 7 over Truckee River; top of a round-headed iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. A_9) ..... Feet. 4,296.215

Hafed, at railroad mileage 253.1, 40 meters east of station sign, 29.4 meters south of track, on top of large black boulder 3 meters high; red-metal disk (C. & G. S. b. m. B_9) 4,376.822

Vista, at railroad mileage 251, on top surface of east abutment of bridge 6 over Truckee River; top of a round-headed iron bolt. (S. P. R. R. b. m.) (C. & G. S. b. m. C_9) 4,390.227

Vista, 1.4 miles east of, on west abutment of small bridge 250 B; top of a round-headed iron bolt. (S. P. R. R. b. m.) (C. & G. S. b. m. D_9) 4,390.713

Vista, 0.6 mile east of, at railroad mileage 249.8, on top surface of east abutment of bridge 5 over Truckee River; top of a round-headed iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. E_9) 4,395.195

Vista, 10.6 meters south of milepole 249, 25.2 meters south of track, 0.2 mile west of station sign, in angle formed by fence at grade crossing with the south line fence, northwest of highway; red-metal disk set in cement or stone post (C. & G. S. b. m. F_9) 4,394.781

Sparks, at railroad mileage 246.3, 250 meters west of railroad station, in angle formed by high board fence at grade crossing, 1 meter from fence corner, 14.9 meters north of track; in cement or stone post; red-metal disk (C. & G. S. b. m. G_9) 4,422.255

Lawton, 0.3 mile east of railroad station, 120 meters east of milepole 238, on top of large brown boulder 1.5 meters high, 15 meters north of westbound track; red-metal disk (C. & G. S. b. m. J_9) 4,645.549

Verdi, 2 miles east of, at mileage 234.1 on old line of Southern Pacific R. R., on east abutment of bridge 4 over Truckee River; red-metal disk (C. & G. S. b. m. K_9) 4,789.751

Verdi, top of western inside base bolt of signal tower 2329, which is "distant" signal for east end of Verdi siding (C. & G. S. b. m. L_9) 4,849.413

Marmol, at railroad mileage 230.5, in cow pasture opposite large red building, 75 meters south of track, 20 meters west of east pasture fence, 7 meters north of south pasture fence, 100 meters east of bench mark E_6, in top of black boulder; top of a round-headed iron bolt (C. & G. S. b. m. F_6) 4,960.449

Marmol, at railroad mileage 230.5, in cow pasture opposite large red building, 65 meters south of track, 60 meters east of west pasture fence, 10 meters north of the south pasture fence, on top of large boulder; red-metal disk (C. & G. S. b. m. E_6) 4,961.893

Marmol, 0.6 mile southwest of, on top of east abutment of railroad bridge over Truckee River; red-metal disk (C. & G. S. b. m. D_6) 4,969.580

From Reno south along Virginia & Truckee Ry. to Carson City, thence east to Mound House and northeast along Southern Pacific R. R. to Dayton. (Precise leveling by U. S. Coast and Geodetic Survey.)

Reno, in granite top of north balustrade of east entrance to city hall; brass plate 2 by 4 inches (C. & G. S. b. m. H_9) 4,495.477

NOTE.—The elevation marked on the top is 96.72 feet above the zero of the city system of levels.

Reno, on main building of Nevada State University, in side of northeast corner stone; bronze tablet stamped "4554.817" (U. S. G. S.) (C. & G. S. b. m. I_9) 4,557.179

	Feet.
Reno, in north end of abutment of highway bridge over Truckee River; red-metal disk (C. & G. S. b. m. M_9)	4,489.643
Reno, 3 miles south of, 75 meters southeast of school house opposite Wingate's stock farm, 5 meters east of Virginia & Truckee Ry. tracks, in line with telegraph poles, 50 meters south of a road crossing; in top of iron post; red-metal disk (C. & G. S. b. m. N_9)	4,440.447
Reno, 5 miles south of, 1.75 miles north of Huffaker, in second pier from south end of railroad bridge over a creek; red-metal disk (C. & G. S. b. m. O_9)	4,455.368
Huffaker, near north end of switch, in a fence corner 5 meters east of railroad tracks, near a road cross, in top of iron post; red-metal disk (C. & G. S. b. m. P_9)	4,505.116
Reno, 9 miles south of, at south end of a siding, 50 meters north of switch stand, east of tracks, in line with telegraph poles, in top of iron post; red metal disk (C. & G. S. b. m. Q_9)	4,543.393
Steamboat Springs, in southwest corner of south abutment of railroad culvert, in top of stone post; bottom of square hole (C. & G. S. b. m. R_9)	4,600.847
Steamboat Springs, 1.5 miles south of, 8 meters east of railroad tracks, in top of iron post; red-metal disk (C. & G. S. b. m. S_9)	4,669.141
Washoe, 1 mile north of, east of road crossing, near crossing sign, in top of iron post; red-metal disk (C. & G. S. b. m. T_9)	4,923.845
Washoe, 0.5 mile north of, in west end of north abutment of railroad bridge, 1 meter lower than rail, in top of stone post; bottom of square hole (C. & G. S. b. m. U_9)	5,025.580
Washoe, in wing wall of first culvert north of station, cross in rock (R. S. b. m.) (C. & G. S. b. m. V_9)	5,038.113
Washoe, near station platform, in west side of concrete culvert under tracks; red-metal disk (C. & G. S. b. m. W_9)	5,039.763
Washoe, 3 miles south of, in line with telegraph poles, 30 meters north of road crossing, in top of iron post; red-metal disk (C. & G. S. b. m. X_9)	5,069.120
Franktown, in northwest corner of foundation of railroad water tank, in top of stone post; bottom of square hole (C. & G. S. b. m. Y_9)	5,054.084
Franktown, 3 miles south of, opposite switch stand, at north end of switch, in line with telegraph poles, in top of iron post; red-metal disk (C. & G. S. b. m. Z_9)	5,054.330
Lakeview, opposite switch stand at south end of siding, 1 meter from right of way fence, in top of iron post; red-metal disk (C. & G. S. b. m. A_{10})	5,124.865
Carson City, 3.5 miles north of, 5 meters west of tracks on tangent of 2 per cent grade on side of a hill, on point of large boulder; chiseled square in relief (C. & G. S. b. m. B_{10})	4,975.623
Carson City, 2 miles northwest of, at north end of railroad tangent, near cross road, east of tracks; square cut in large boulder (C. & G. S. b. m. C_{10})	4,835.512
Carson City, 0.75 mile west of, in concrete head gates of an irrigation ditch on railroad right of way, near road crossing; red-metal disk (C. & G. S. b. m. D_{10})	4,755.840
Carson City, in south wall of Carson Bank near rear entrance; red-metal disk (C. & G. S. b. m. E_{10})	4,686.342
Carson City, at western entrance to Capitol, in footing of one of the supports of pillars; red-metal disk (C. & G. S. b. m. F_{10})	4,677.563

	Feet.
Carson City, in front wall of post-office building, just over north balustrade; red-metal disk (C. & G. S. b. m. G_{10})	4,681.441
Carson City, 400 meters east of station, near west end of railroad yards, on northwest end of guard wall of a timber culvert over a creek; bottom of square hole (C. & G. S. b. m. H_{10})	4,667.874
Carson City, about 2 miles east of, 20 meters south of railroad tracks, in center of north guard wall of highway culvert; red-metal disk (C. & G. S. b. m. I_{10})	4,632.238
Morgan Mills, in old stone building 10 meters south of railroad tracks, in northeast corner, marked with a horizontal slit; copper bolt (C. & G. S. b. m. J_{10})	4,611.716
Carson City, 4.5 miles east of, in north end of east abutment of highway bridge over Carson River; copper bolt (C. & G. S. b. m. K_{10})	4,576.129
Mound House, 2 miles west of, 0.5 mile east of section tool house, 3 meters north of tracks, in face of rock; copper bolt (C. & G. S. b. m. L_{10})	4,682.963
Mound House, 150 meters west of railroad station, 10 meters west of tracks, on northeast corner of a rail buried on end near a telegraph pole, rail projects 4 feet out of the ground (C. & G. S. b. m. M_{10})	4,960.371
Mound House, 50 meters south of station, near a telegraph pole, 75 meters east of junction of tracks of Virginia & Truckee Ry. and Southern Pacific Ry., 1 meter lower than rail; on top of iron post; red-metal disk (C. & G. S. b. m. N_{10})	4,935.797
Mound House, about 3.5 miles east of, near milepole 339, 10 meters north of tracks, near telegraph pole where line crosses the tracks; on top of iron post; red-metal disk (C. & G. S. b. m. O_{10})	4,581.707
Dayton, railroad water tank, on footing of northwest pillar; copper bolt (C. & G. S. b. m. P_{10})	4,353.945
Dayton, in north face of brick building used as post office; red-metal disk (C. & G. S. b. m. Q_{10})	4,371.986
Dayton, 3.25 miles east of, 3 meters east of milepole 333, 10 meters south of tracks; in top of iron post; red-metal disk (C. & G. S. b. m. R_{10})	4,350.703
Dayton, 3.25 miles east of, 30 meters northeast of milepole 333, 5 meters north of tracks; U. S. Land Office bench mark having the following data in bronze top: $\frac{1/4\ S\ 8}{S\ 17}$ (C. & G. S. b. m. S_{10})	4,348.974

Elevations by water leveling along west shore of Pyramid Lake, by General Land Office in 1911.

T. 23 N., R. 22 E., near center of sec. 10, 4.5 miles northwest of southwest point of Pyramid Lake, 500 feet north of cabin, 200 feet east of stream, 5 feet east of road, 75 feet from lake shore, by mound of stone; iron post marked "3889" (No. 2)	3,883.794
Stake L 1310+50, C. P. R. R. Survey, profile elevation 3902.55)	3,906.52
The Willows, 1.5 miles northwest of, opposite red point and near point where road starts up long slope, on flint rock projecting out into water; small cross	3,869.36
The Willows, 1.8 miles southeast of, in SW. ¼ SE. ¼ sec. 23, T. 24 N., R. 21 E., 500 feet southeast of large boulder, 300 feet from lake shore, 200 feet east of road, on rocky spur; iron post marked "No. 3, 3913"	3,907.909

The Willows, 4.5 miles northwest of, 1,000 feet southeast of prominent rocky point, on crest of bank 50 feet from lake shore, 0.15 mile north and 1 mile east of the meander corner of sections 28 and 33, T. 25 N., R. 21 E.; iron post marked "No. 4 3883" ..... Feet. 3,878.381

ST. THOMAS QUADRANGLE.

[Latitude 36°–37°; longitude 114°–115°.]

From Apex north along San Pedro, Los Angeles & Salt Lake R. R. to Carp. (Precise leveling by U. S. Coast and Geodetic Survey.)

Apex, 400 meters southwest of signboard "Apex," at highest point of railroad grade between Las Vegas and Moapa, 4.8 meters southeast of center line of main track, 10 meters southwest of southwest end of Apex siding, in solid rock cut, 1.2 meters above top of rail; copper bolt set horizontally in cement (C. & G. S. b. m. W) 2,474.240

Apex, 2.4 miles northeast of, 0.4 mile northeast of milepole 354, 28 meters southeast of center line of main track of railroad, in south wing wall of concrete culvert 354 A, 0.9 meter above apron of culvert; copper bolt set vertically in cement (C. & G. S. b. m. X) 2,327.066

Garnet, at southwest end of siding, 10 meters northwest of center line of main track, at northeast corner of concrete section house, facing tracks and 1.5 meters above ground; copper bolt set horizontally in cement (C. & G. S. b. m. Y) 2,242.216

Garnet, on projecting concrete foundation of section house, at northeast corner, directly beneath bench mark Y; bottom of square hole, marked "U. S. B. M." (C. & G. S. b. m. Z) 2,237.283

Dry Lake, 3 miles south of, 136 feet east of center line of main track, just south of milepost 360 and bridge 359 B, in lower end of embankment for protecting railroad track from washout, projecting 1 foot above ground, on top of iron post; red-metal disk (C. & G. S. b. m. A_1) 2,137.919

Dry Lake, on steel base of southwest one of two water-tank supports nearest main track; chiseled square. In addition the letters "U. S. B. M." were cut in face of concrete supporting pier (C. & G. S. b. m. B_1) 2,093.568

Dry Lake, 16 meters southwest of south wall of telegraph station, on opposite side of track, 16.8 meters northwest of center line of main track, in hard gypsum soil, projecting 1 foot above ground, on top of iron post; red-metal disk (C. & G. S. b. m. C_1) 2,088.057

Dry Lake, 2 miles northeast of, 4.5 telegraph poles south of milepole 365, 60.4 meters northwest of center line of main track, on a small knoll, on top of iron post projecting 1 foot above ground; red-metal disk (C. & G. S. b. m. D_1) 2,099.008

Crystal, 15 meters southeast of center line of main track, at northeast end of siding, in vertical wall of concrete section house, at southwest corner, on side facing tracks, 0.1 meter above ground; red-metal disk (C. & G. S. b. m. E_1) 2,033.398

Ute, 65 meters northwest of center line of main track, directly opposite signboard "Ute," in dirt embankment for wash protection, projecting 1 foot above ground, on top of iron post; red-metal disk (C. & G. S. b. m. F_1) 1,932.276

	Feet.
Byron, 15 meters southeast of center line of main track, in vertical wall of concrete section house, at southwest corner, on side facing the tracks, 1.4 meters above ground; red-metal disk (C. & G. S. b. m. G_1)	1,785.328
Moapa, 1.2 miles southwest of, in middle of high fill across Muddy Valley, 35 meters southwest of signboard "Moapa one mile," at south corner of top surface of southeast parapet wall of culvert 381 B, northeast of main bridge over Muddy Creek; letters "U. S. B. M." cut in vertical face of wall directly beneath bench mark; copper bolt in cement (C. & G. S. b. m. H_1)	1,589.130
Moapa, in front of Muddy Valley store and hotel, on west side of railroad and distant 160 meters from main track, near fence line at northeast corner of hotel, on top of iron post projecting 5 inches above ground; red-metal disk (C. & G. S. b. m. I_1)	1,667.546
Moapa, in vertical concrete foundation wall of railrad station, at northwest corner of building, facing Railroad Avenue, 0.5 meter above ground; red-metal disk (C. & G. S. b. m. J_1)	1,666.624
Moapa, on east side of railroad tracks; in front of store of W. C. Bowman, at northeast corner of Moapa and Railroad avenues, close to porch, on top of iron post; red-metal disk (C. & G. S. b. m. K_1)	1,676.158
Moapa, 640 meters north of station, in south one of two concrete piers of water tank on west side of railroad tracks, facing the tracks, set horizontally with letters "U. S. B. M." cut in face of pier; copper bolt set in cement (C. & G. S. b. m. L_1)	1,686.411
Acton, at south end of siding, 20 meters east of center line of main track, set horizontally in vertical wall of section dwelling, the southerly one of two concrete buildings at Acton, midway between doors facing tracks, 1.5 meters above ground; copper bolt in cement (C. & G. S. b. m. M_1)	1,748.362
Guelph, 60 feet north of signboard "Guelph," 170 feet south of center of bridge 392 C, 2.5 telegraph poles south of milepole 393, 32 meters west of center line of main track of railroad, 1 meter outside right of way fence line, on top of iron post; red-metal disk (C. & G. S. b. m. N_1)	1,744.842
Rox, 2.8 miles south of, 470 meters north of Huntsman's ranch, 15 meters north of first road crossing north of entrance to Meadow Valley Canyon, 3.5 meters east of center line of main track of railroad, in northeast corner of concrete culvert 394 C; copper bolt set vertically in cement (C. & G. S. b. m. O_1)	1,794.553
Rox, 15 meters east of center line of main track of railroad, on side of concrete telegraph office toward tracks, 1.5 meters above ground and 0.5 meter above top of rail; red-metal disk (C. & G. S. b. m. P_1)	1,904.393
Rox, 52 meters east of center line of main track of railroad, in northwest corner of concrete support of water tank, 8 meters above railroad track on rocky ledge; copper bolt set in cement (C. & G. S. b. m. Q_1)	1,932.998
Hoya, 32 meters southeast of center line of main track, directly opposite signboard "Hoya," 0.5 meter outside the right of way fence, on opposite side of tracks from bed of Meadow Valley wash; in top of stone post, bottom of square hole (C. & G. S. b. m. R_1)	2,027.243

	Feet.
Galt, 15 meters south of center line of main track, at west end of Galt siding, in side of concrete section house facing tracks, 1.7 meters above top of rail; red-metal disk (C. & G. S. b. m. S_1)	2,244.316
Galt, 3.5 miles north of, on west end of southwest concrete abutment of bridge 411 A, 3.5 meters northwest of center line and 0.5 meter below top of rail; copper bolt set vertically in cement (C. & G. S. b. m. T_1)	2,378.181
Vigo, 36.2 meters northwest of center line of main track, directly opposite signboard "Vigo," 5.5 meters outside of right of way fence, 0.2 meter below top of rail, on top of iron post; red-metal disk (C. & G. S. b. m. U_1)	2,433.867
Vigo, 0.5 mile north of, on south end of west concrete abutment of bridge 413 A, in entrance to canyon north of Vigo, 3.5 meters south of center line and 0.5 meter below top of rail; copper bolt set in cement (C. & G. S. b. m. V_1)	2,451.763
Carp, 2 miles south of, 35 meters southeast of center line of main track, on southeast side of highway, 25 meters south of milepole 416, 1.1 meters below top of rail, at base of a rocky point, on top of iron post; red-metal disk (C. & G. S. b. m. W_1)	2,524.253

SILVER PEAK 30′ QUADRANGLE (LIDA 1° QUADRANGLE).

[Latitude 37° 30′–38°; longitude 117° 30′–118°.]

From point 13.5 miles southeast of Columbus southeast to Silver Peak. (Primary leveling by C. R. Smith in 1897–8.)

Columbus, 13.5 miles southeast of, 20 feet southwest of road on summit, in sandstone outcrop; bronze tablet stamped "5208"	5,127.265
Columbus, 15.5 miles southeast of; top of iron post of Salt Well guideboard	4,929.29
Columbus, 19 miles southeast of; top of iron post of Dry Well guideboard	4,832.88
Columbus, 25.5 miles southeast of, at junction with Reese River road; iron post stamped "4996"	4,914.969
Silver Peak, west end of town, in stone front of Chialdavitch store; bronze tablet stamped "4382"	4,301.507

From Silver Peak south to Barrel Springs and return.

Silver Peak, 0.5 mile south of; top of iron post of Palmetto guideboard	4,291.55
Silver Peak, 9.5 miles south of, at junction of road from Indian Garden; iron post stamped "4803"	4,722.091
Barrel Springs, at right of mouth of tunnel; iron post stamped "6177"	6,096.572

From Silver Peak west along Summit road to Fish Lake road, thence north along latter via The Crossing to Gap Springs.

Coyote Spring; iron post stamped "6041"	5,960.550
Silver Peak, 6.2 miles northwest of; top of iron post of Silver Peak mine guideboard	6,628.59
Silver Peak, 7 miles northwest of, on summit 50 feet south of road; iron post stamped "7353"	7,272.193

	Feet.
Cave Springs, in front of right wall of cave; bronze tablet stamped "6248"	6,166,749
The Crossing, on Mineral Monument Hill; iron post stamped "4825"	4,744.547
Gap Springs, 10 miles south of Columbus, 100 feet south of spring; iron post stamped "4744"	4,663.110

From The Crossing northeast via Emigrant Pass to Columbus road.

Benders Emigrant Pass; iron post stamped "6145"	6,063.516
The Crossing, 13 miles northeast of, at junction with Columbus road; top of iron post of guideboard marked "Fish Lake Valley 13 miles"	4,955.47

From Dry Well northeast via Salt Well to Reese River road, thence south along latter to Silver Peak road.

Salt Well; iron post stamped "4869"	4,789.158
Big Smoky Valley, southeast side of, on Reese River road, 7.5 miles north of its junction with Silver Peak road; iron post stamped "4841"	4,761.191

From Dry Well south to northwest corner of T. 1 S., R. 38 E. (single spur line).

T. 2 S., R. 40 E., southeast corner of sec. 8; iron post stamped "4346"	4,265.667

From point near The Monocline northeast to northwest corner of T. 1 S., R. 40 E. (single spur line).

T. 1 S., R. 40 E., northwest corner of; iron post stamped "5453"	5,371.834

From point near The Monocline southeast across country to southeast corner of sec. 8, T. 2 S., R. 40 E., thence west to Silver Peak.

T. 2 S., R. 40 E., southeast corner of sec. 8; iron post stamped "4346"	4,265.667

From fork west of Coyote Creek northeast to Blair mine and return.

Blair mine, on Mineral Ridge, 1 mile north of Tarantula Springs, on summit of trail running from Valcadis's building; iron post stamped "7298"	7,216.817

From point on Piper road at northwest corner of T. 4 S., R. 39 E. west via Cow Camp Springs to southeast corner of sec. 31, T. 3 S., R. 38 E. and return.

T. 4 S., R. 39 E., northwest corner of; iron post stamped "4661"	4,580.253
T. 3 S., R. 38 E., south corner of secs. 31 and 32; iron post stamped "5979"	5,897.825

STONEHOUSE QUADRANGLE.

[Latitude 40° 30′–41°; longitude 117°–117° 30′.]

From Piute northwest along Southern Pacific R. R. to Preble. (Precise leveling by U. S. Coast and Geodetic Survey.)

Piute, at station sign, at railroad mileage 470.8, 36.6 meters south of track, 25.2 meters north of south line fence, set in cement or stone post; red-metal disk (C. & G. S. b. m. N_6)	4,505.759
Mote, at station sign, at railroad mileage 466.3, 56.2 meters north of track, 4.9 meters south of north line fence, in cement or stone post; red-metal disk (C. & G. S. b. m. O_6)	4,506.533

	Feet.
Valmy, on top of concrete subbase of southeastern one of four central pillars under railroad water tank; red-metal disk (C. & G. S. b. m. P_6)	4,507.278
Valmy, 1.3 miles west of, 9 meters north of milepole 460, 28 meters north of track, 33 meters south of north line fence, in cement or stone post; red-metal disk (C. & G. S. b. m. Q_6)	4,482.524
Stonehouse, 0.3 mile west of, on top of south head wall of concrete culvert 456 C over Humboldt River, 3.2 meters south of railroad track and 1.5 meters below it; red-metal disk (C. & G. S. b. m. R_6)	4,425.362
Herrin, 60 meters west of east end of siding, 28 meters west of a yellow building, 1.4 meters north of a red building, 27.4 meters south of railroad track, in cement or stone post; red-metal disk (C. & G. S. b. m. S_6)	4,406.556
Iron point, 100 meters east of milepole 448, 18 meters west and 36 meters north of railroad station, 60 meters north of track, 0.7 meter south of north line fence, set in cement or stone post; red-metal disk (C. & G. S. b. m. T_6)	4,386.150
Comus, 11.2 meters west of section tool house, 17.6 meters north of railroad track, 0.5 mile south of north line fence, in cement or stone post; red-metal disk (C. & G. S. b. m. U_6)	4,373.433
Near Preble, on top surface of east abutment of railroad bridge 441 C which is bridge No. 3 over Humboldt River, 2 meters north of track; red-metal disk (C. & G. S. b. m. V_6)	4,375.070

TONOPAH QUADRANGLE.

[Latitude 38°–39°; longitude 117°–118°.]

From Redlich southeast along Tonopah and Goldfield R. R. to Tonopah. (Precise leveling by U. S. Coast and Geodetic Survey.)

Redlich, 30 meters east of railroad tracks, 30 meters south of section house, in rock embedded in ground; aluminum tablet stamped "4999 U. S. G. S." (C. & G. S. b. m. Y_{12})	4,993.310
Redlich, 2.25 miles south of, near eleventh telegraph pole south of milepole 10, 25 meters east of Southern Pacific R. R. tracks, on top of iron post; red-metal disk (C. & G. S. b. m. Z_{12})	4,748.629
Rockhill, in concrete foundation (no superstructure) for a water tank of the Toponah and Goldfield R. R.; top of iron anchor bolt set in northeast footing, marked by a cross (C. & G. S. b. m. A_{13})	4,573.383
Rockhill, 2.25 miles south of, 12 meters south of twelfth telegraph pole south of milepole 14, 20 meters east of Southern Pacific R. R. tracks, on top of iron post; red-metal disk (C. & G. S. b. m. B_{13})	4,527.950
Coaldale, 2 miles north of, 6 telegraph poles north of milepole 18, on range with telegraph poles, 20 meters east of tracks of Tonopah and Goldfield R. R., on top of iron post; red-metal disk (C. & G. S. b. m. H_{14})	4,530.772
Coaldale, 1 mile southwest of, 1 mile east of Columbus Salt Marsh, west of road near crossroad; iron post stamped "U. S. G. S. 4671" (C. & G. S. b. m. I_{14})	4,588.974
Coaldale, 1 mile southeast of, 5 meters southeast of milepole 21, 20 meters north of tracks, on top of iron post; red-metal disk (C. & G. S. b. m. J_{14})	4,645.296
Blair Junction, 3.3 miles northwest of, 6 meters southeast of milepole 24, 20 meters east of tracks, on top of iron post; red-metal disk (C. & G. S. b. m. K_{14})	4,909.747

	Feet.
Blair Junction, 0.3 mile northwest of, 3 meters southeast of milepole 27, 20 meters northeast of track, on top of iron post; red-metal disk (C. & G. S. b. m. L_{14})	4,817.707
Blair Junction, in concrete footing of southwest pillar of water tank of Tonopah and Goldfield R. R., 2 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. M_{14})	4,815.161
Blair Junction, 2.7 miles southeast of, 6 meters southeast of milepole 30, 20 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. N_{14})	4,786.106
Blair Junction, 5.7 miles southeast of, 4 meters southeast of milepole 33, 20 meters northeast of track, on top of iron post; red-metal disk (C. & G. S. b. m. O_{14})	4,799.528
Blair Junction, 8.7 miles southeast of, 2 meters southeast of milepole 36, 10 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. P_{41})	4,742.343
Millers, 8 miles northwest of, 10 meters southeast of milepole 39, 20 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. Q_{14})	4,743.219
Millers, 5 miles northwest of, 25 meters southeast of milepole 42, 20 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. R_{14})	4,766.506
Millers, 2 miles northwest of, 8 meters southeast of milepole 45, 20 meters southeast of track, on top of iron post; red-metal disk (C. & G. S. b. m. S_{14})	4,786.526
Millers, in front of station, in southwest footing of water tank, in top of stone post; bottom of square hole (C. & G. S. b. m. T_{14})	4,854.039
Main Line Junction, in angle of a Y, near a telegraph pole, 120 meters southeast of section house, on top of iron post; red-metal disk (C. & G. S. b. m. U_{14})	4,973.658
Main Line Junction, 3.3 miles southeast of, 20 meters west of track between Main Line Junction and McSweeney Junction, just south of a sink along railroad embankment, on top of iron post; red-metal disk (C. & G. S. b. m. V_{14})	5,153.566
McSweeney Junction, in the Y and about 100 meters north of junction of tracks, on top of iron post; red-metal disk (C. & G. S. b. m. W_{14})	5,293.992
Columbia Junction, 2.5 miles south of, 15 meters south of a road crossing track, 20 meters west of track, in line with telegraph poles, on top of iron post; red-metal disk (C. & G. S. b. m. X_{14})	5,363.352
Columbia Junction, 30 meters north of track, near telephone booth, in line with telegraph poles, on top of iron post; red-metal disk (C. & G. S. b. m. Y_{14})	5,538.184
Columbia Junction, 0.6 mile east of, 8 meters south of track, 0.25 mile west of large mine hoist, in end of boulder 2 feet by 1.5 feet, about 1 foot above the surface of ground, in top of stone post; bottom of square hole (C. & G. S. b. m. Z_{14})	5,619.661
Tonopah, in west face of Tonopah Banking Corporation's building on Main Street; iron post stamped "U. S. G. S. B. M." (C. & G. S. b. m. A_{18})	6,026.494
Tonopah, 1 mile south of railroad station, 800 meters southeast of baseball field, 20 meters west of road to Goldfield; iron post stamped "U. S. G. S. B. M." (C. & G. S. b. m. B_{18})	6,147.970

	Feet.
McSweeney Junction, 3.5 miles south of, 5 meters south of mile-pole 61, 20 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. C_{15})	5,163.264
From point near Gold Mountain Mining Co.'s plant north to Tonopah. (Primary leveling by Ress Philips in 1905.)	
Tonopah, 3 miles south of, at foot of hill, 20 feet south of road, 0.5 mile south of New England mine; iron post stamped "7"	5,948.536
Tonopah, at entrance to Nye & Omsby Co.'s bank; cross cut in curb-stone (railroad elevation 6,085.785 feet)	6,024.77
From Tonopah west along wagon road to Montezuma Wells, thence north to San Antonio. (Primary leveling by T. A. Green in 1907.)	
Tonopah, in front of station; top of rail	5,975,8
Tonopah, 5.8 miles west of, 30 feet south of road; iron post stamped "5337 1907"	5,330.628
Tonopah, 11.9 miles west of, 0.7 mile east of Montezuma Wells, 30 feet north of road at junction with road running southeast toward railroad; iron post stamped "4845 1907"	4,837.219
Montezuma Wells, 5.3 miles north of, 30 feet west of road; iron post stamped "4890 1907"	4,883.273
Midway, on east side of road, at southwest corner of house occupied by Peter Samuelson; iron post stamped "5008 1907"	5,001.502
Midway, 5 miles northeast of, east side of road; iron post stamped "5140 1907"	5,133.525
San Antonio, 0.6 mile west of, 20 feet south of road; iron post stamped "5384 1907"	5,377.749
San Antonio, 40 feet southeast of corner of main building, in south-east corner of fence around house; iron post stamped "5406 1907"	5,399.735
From San Antonio west via Cloverdale and Cipac mine to Battle's Well.	
Cloverdale, 12 miles southeast of, 30 feet south of road; iron post stamped "5376 1907"	5,369.154
Cloverdale, 6 miles southeast of, 30 feet south of road, 0.8 mile west of road running southeast to Tonopah; iron post stamped "5508 1907"	5,501.441
Cloverdale, forks of road south of, in prong of forks forming Y; iron post stamped "5697 1907"	5,690.103
Lower Black Spring, 3.2 miles east of, 3.8 miles west of Cloverdale, 30 feet north of road; iron post stamped "5439 1907"	5,432.772
Cipac mine, 4 miles southwest of, 10 feet south of road; iron post stamped "5773 1907"	5,766.080
Cipac mine, 9.2 miles west of, 30 feet south of road, 120 feet west of forks, in large outcrop of limestone rock; aluminum tablet stamped "6672 1907"	6,665.928
Cipac mine, 15.2 miles west of, 10 feet north of road, on little hill between two drains; iron post stamped "6246 1907"	6,239.525
Battle's Well, 783 feet east of, 590 feet west of main forks, 25 feet south of road, in large oblong boulder; aluminum tablet stamped "6240 1907"	6,233.446
From San Antonio northeast along wagon road to point 2 miles west of Central.	
San Antonio, 6 miles northeast of, on east side of road; iron post stamped "5887 1907"	5,880.464
San Antonio, 10 miles northeast of, 2 miles west of Central, at forks of road, 30 feet north of junction; iron post stamped "6226 1907"	6,219.180

From point near Central east to Manhattan and return.

	Feet.
Manhattan, west end of town, on south side of road, 115 feet east of cabin occupied by E. E. Teberg; iron post stamped "6905 1907"	6,897.950
Manhattan, southeast corner of barber shop managed by Bruce Wood; iron post stamped "7021 1907"	7,014.205

From point near Central north along wagon road to Ophir Canyon, thence west over Ophir Summit to Keough's ranch, thence southwest via Union Canyon and Berlin to Goldyke, thence south and southeast to point near Cloverdale.

Central, 7.6 miles northwest of, 20 feet east of road; iron post stamped "5742 1907"	5,734.915
Central, 13.8 miles northwest of, 20 feet east of road, 40 feet south of four corners; iron post stamped "5801 1907"	5,794.766
Wood's ranch, 200 feet northwest of ranch house, on east side of road; iron post stamped "5640 1907"	5,632.813
Darroughs Hot Springs, 400 feet west of house occupied by James Darrough, east side of road, in southwest corner of fence at mail box; iron post stamped "5609 1907"	5,602.186
Hot Springs, 6 miles northwest of, on west side of road, 10 feet south of second-class crossroads, in rock; aluminum tablet stamped "5830 1907"	5,823.145
Ophir Canyon, mouth of, north side of trail, 200 feet south of stream, in flat granite rock 4 feet long and 5 feet wide; aluminum tablet stamped "6282 1907"	6,275.059
Ophir Summit, 15 feet south of trail, on east side of divide, 35 feet north of large pile of rock; aluminum tablet stamped "10115 1907"	10,108.498
Gooding's ranch, 600 feet north of house occupied by George Gooding, north side of wagon road; iron post stamped "7430 1907"	7,423,423
Keough's ranch, southwest corner of fence around house occupied by George Keough; iron post stamped "6726 1907"	6,719.637
Keough's ranch, 6 miles southwest of, summit at head of Union Canyon, 50 feet north of wagon road, 75 feet northeast of divide, in rock; aluminum tablet stamped "7976 1907"	7,969.433
Union Canyon, at forks near mouth of, 40 feet north of junction, in rock; aluminum tablet stamped "6763 1907"	6,756.445
Berlin, 20 feet east of southwest corner of post office and The Nevada Co.'s store, on south side; iron post stamped "6683 1907"	6,676.496
Berlin, 5.8 miles southwest of, 10 feet north of road; iron post stamped "6131 1907"	6,124.525
Berlin, 12 miles southwest of, on north side of road, on east side of draw, 50 feet north of where road starts down into draw; iron post stamped "6119 1907"	6,112.602
Berlin, 17.9 miles southwest of, 20 feet south of road, on west side of small draw; iron post stamped "6469 1907"	6,462.423
Goldyke, north side of store kept by W. Dee Jones, 20 feet west of northeast corner; iron post stamped "5886 1907"	5,879.473
Pactolus, 0.4 mile north of, forks at signboard reading "Sodaville 35 miles," 30 feet east of junction; iron post stamped "5796 1907"	5,788.990
Pactolus, 5.7 miles southeast of, 25 feet west of road; iron post stamped "5930 1907"	5,923.324
Black Springs, on west side of road at upper spring, in southeast corner of pasture fence; iron post stamped "5570 1907"	5,563.524

From Redlich south to Columbus.

	Feet.
Redlich, 90 feet east of tracks, 300 feet north of milepost, 7,100 feet south of section house and post office, in rock embedded in ground; aluminum tablet stamped "4999·1907"	4,993.310
Redlich, 5.1 miles south of, at junction with road running northwest, at signboard reading "Sodaville 17 miles," 40 feet east of road; iron post stamped "4828 1907"	4,821.586

From Columbus southeast across Salt Marsh.

Coaldale, 1 mile southwest of, 1 mile east of Columbus Salt Marsh, west of road near crossroads; iron post stamped "4671" (old railroad datum)	4,588.974

From Goldyke northwest to point 2 miles west of Kelly's Well. (Primary leveling by Ress Philips in 1905.)

Goldyke, 2.4 miles northwest of, 0.6 mile east of Everett's mine, 20 feet north of road, 100 feet west of road running south, at prospect hole, in rock; aluminum tablet stamped "5780"	5,773.218
Kelly's Well, 3.5 miles southeast of, 75 feet west of road, at point projecting west between two drains, in porphyry outcrop; aluminum tablet stamped "5258"	5,251.505
Kelly's Well, southeast corner of windmill, in plank; nail marked "4577"	4,570.45

WABUSKA QUADRANGLE (includes part of Yerington special quadrangle).

[Latitude 39°–39° 30′; longitude 119°–119° 30′.]

From Dayton southeast along Southern Pacific R. R. to point near Schurz. (Precise leveling by U. S. Coast and Geodetic Survey.)

Dayton, 6.25 miles east of, 20 meters west of milepole 329, 8 meters south of railroad track, on top of iron post; red-metal disk (C. & G. S. b. m. T_{10})	4,291.402
Clifton, 1 mile west of, 2 telegraph poles east of milepole 326 and 10 meters south of railroad track, on top of iron post; red-metal disk (C. & G. S. b. m. U_{10})	4,273.882
Clifton, 2 miles east of, 40 meters west of and on opposite side of track from milepole 323, 3 meters north of railroad track, opposite a point of curvature, on top of iron post; red-metal disk (C. & G. S. b. m. V_{10})	4,252.626
Clifton, 5 miles east of, 2 meters west of milepole 320, 10 meters south of railroad track, on top of stone post; red-metal disk (G. & G. S. b. m. W_{10})	4,239.070
Churchill, 1 mile west of, 2 telegraph poles and 12 meters east of milepole 317, 4 meters south of railroad track, 10 meters south of Carson River, on top of iron post; red-metal disk (C. & G. S. b. m. X_{10})	4,218.180
Churchill, 0.5 mile north of, in west end of north abutment of concrete railroad culvert 315 D; top of iron bolt, marked "B. M. 52" (C. & G. S. b. m. Y_{10})	4,207.810
Churchill, 0.5 mile north of, in west end of south abutment of concrete railroad culvert 315 D; red-metal disk (C. & G. S. b. m. Z_{10})	4,209.890
Churchill, in southwest footing of railroad oil tank, in top of stone post; bottom of square hole (C. & G. S. b. m. A_{11})	4,213.938

	Feet.
Churchill, 2.5 miles south of, 0.5 mile north of milepole 319, 1 meter higher than track, in line with telegraph poles near north end of long tangent, on top of iron post; red-metal disk (C. & G. S. b. m. B_{11})	4,291.156
Churchill, 5 miles south of, 2 meters south of milepole 322, in line with telegraph poles, 8 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. C_{11})	4,274.539
Wabuska, 3 miles northwest of, 3 meters north of milepole 325, 8 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. D_{11})	4,293.919
Wabuska, 2 feet west of station, 5 feet north of southwest corner; iron post stamped "4297 Wab." (U. S. G. S.) (C. & G. S. b. m. E_{11})	4,298.981
Wabuska, 200 feet west of station, in front of water tank; top of south rail (U. S. G. S.)	4,300.09
Wabuska, 800 feet south of station, 20 feet west of road to Yerington, near sod house; iron post stamped "4303.95 SP" (U. S. Reclamation Service b. m.) (U. S. G. S.) (C. & G. S. b. m. F_{11})	4,299.145
Wabuska, about 4 miles southeast of, 2 meters north of milepole 332, 8 meters west of railroad track, on top of iron post; red-metal disk (C. & G. S. b. m. G_{11})	4,308.226
Wabuska, 9 miles east of, 15 meters west of track, abreast of milepole 337, on top of iron post; red-metal disk (C. & G. S. b. m. H_{11})	4,310.326
Wabuska, 11 miles east of, 10 meters west of track, abreast of third telegraph pole east of milepole 339, in a dry lake bed, on top of iron post; red-metal disk (C. & G. S. b. m. I_{11})	4,274.125
Wabuska, 14.5 miles southeast of, 3 telegraph poles northwest of "One mile to Rio Vista station" sign, 20 meters west of track, on top of iron post; red-metal disk (C. & G. S. b. m. J_{11})	4,295.185
Schurz, 8 miles north of, 20 meters south of track, abreast of milepole 346, on top of iron post; red-metal disk (C. & G. S. b. m. K_{11})	4,370.254

From Wabuska south along highway to point near Yerington station. (Leveled twice by R. H. Chapman in 1913.)

Wabuska, 200 feet west of station, in front of water tank; top of south rail of Southern Pacific R. R.	4,300.09
Wabuska, 2 feet west of station, 5 feet north of southwest corner; iron post stamped "4297 Wab"	[1] 4,298.981
Wabuska, 800 feet south of station, 20 feet west of road to Yerington, near sod house; iron post stamped "4303.9 SP" (U. S. Reclamation Service b. m.)	[1] 4,299.145
Wabuska, 1.6 miles south of, west side of road, 350 feet south of S. Penrose's house; iron post stamped "4305 Wab"	4,306.986
Wabuska, 3.1 miles south of, in front of Warren Brothers' home ranch, 250 feet south of road to east, on west side of road, in root of cottonwood tree; copper nail	4,323.10
Wabuska, 4 miles south of, 650 feet north of Oakey's house, on east side of road, in root of cottonwood tree; copper nail	4,329.73
Wabuska, 4.8 miles south of, 2,000 feet north of east-west crossroad, due west of Mason Butte, on west side of road; iron post stamped "4334 Wab"	4,335.579
Wabuska, 6.3 miles south of, 1,200 feet north of Pat Gallagher's home ranch, on east side of road, in root of cottonwood tree; copper nail	4,345.12

[1] Redetermined in 1915 by Coast and Geodetic Survey precise leveling.

	Feet.
Wabuska, 6.5 miles south of, in front of Pat Gallagher's home ranch, on west side of road; iron post stamped "4353 S. P." (U. S. Reclamation Service b. m.)	4,348.889
Wabuska, 7.5 miles south of, 1,350 feet north of McGowan's ranch house (empty), on west side of road, in top of stub to telephone pole; copper nail	4,360.57
Wabuska, 7.8 miles south of, opposite McGowan's ranch house (empty), 30 feet north of ditch, west side of road; iron post stamped "4359 Wab"	4,361.113
Wabuska, 8.2 miles south of, 2,100 feet south of McGowan's ranch house, south of crossroads, west of main road, in stub to telephone pole, 3 feet above ground; copper nail	4,361.68
Wabuska, 8.8 miles south of, 0.5 mile northwest of McCloud Hill, west side of road, in stub to telephone pole, 3 feet above ground; copper nail	4,370.84
Wabuska, 9.3 miles south of, 2 miles north of Yerington station, 300 feet south of signpost at fork of roads to Buckskin and Morning Star, 50 feet east of road; iron post stamped "4404 Wab"	4,405.905

WADSWORTH QUADRANGLE.

[Latitude 39° 30′–40°; longitude 119°–119° 30′.]

From Hazen west along Southern Pacific R. R. to Thisbe. (Precise leveling by U. S. Coast and Geodetic Survey.)

Hazen, 100 meters east of east end of siding, on top surface of east abutment of railroad bridge 289 A; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. K_8)	4,005.596
Hazen, 0.3 mile east of station, in southeast concrete pillar under water tank, 50 meters north of track; red-metal disk (C. & G. S. b. m. L_8)	4,003.345
Patna, at railroad mileage 284.7, 0.1 mile west of section foreman's house, on top of west concrete abutment of small railroad bridge 284 B; red-metal disk (C. & G. S. b. m. M_8)	4,061.632
Patna, 1.1 miles west of, at railroad mileage 282.8, in top surface of west abutment of small bridge 282 C; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. N_8)	4,077.676
Argo, 0.5 mile east of, at railroad mileage 281.4, in east concrete abutment to bridge 281 B; top of a roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. O_8)	4,073.515
Argo, 0.1 mile east of station sign, at railroad mileage 280.5, 11.3 meters east of derailing switch, 30.7 meters north of track, 0.4 meter south of north line fence; set in cement or stone post; red-metal disk (C. & G. S. b. m. P_8)	4,073.830
Luva, at railroad mileage 277.8, 4 meters east of station sign, 29.5 meters north of track, 1 meter south of north line fence, 16 meters west of point of branch line, set in cement or stone post; red-metal disk (C. & G. S. b. m. Q_8)	4,127.521
Fernley, at railroad mileage 276.1, 16 meters west of railroad station, 59 meters north of track, 0.8 meter south of north line fence; red-metal disk set in cement or stone post (C. & G. S. b. m. R_8)	4,150.661

NOTE.—The station is soon to be moved about 0.3 mile west.

	Feet.
Fernley, 200 meters west of station, 60 meters west of milepost 276, 3 meters south of track, on the south head wall of concrete culvert (U. S. G. L. O.), aluminum tablet (not stamped) (C. & G. S. b. m. S_8)	4,152.990
NOTE.—The station is soon to be moved about 0.3 mile west.	
Gilpin, 150 meters west of water tank, 200 meters east of station sign, 15.7 meters south of track, set in cement or stone post; red-metal disk (C. & G. S. b. m. T_8)	4,162.000
Derby, at railroad mileage 269.5, in top surface of west abutment of bridge 13 over Truckee River; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. U_8)	4,161.258
Derby, 0.6 mile west of, at railroad mileage 268.7, in top surface of east abutment of bridge 12 over Truckee River; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. V_8)	4,159.956
Derby, 1 mile west of, at railroad mileage 268.2, in top surface of east abutment of bridge 11 over Truckee River; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. W_8)	4,166.229
Thisbe, at railroad mileage 264.7, 0.2 mile west of Derby Dam of U. S. Reclamation Service, in top surface of east concrete abutment of bridge 10 over Truckee River, which flows under bridge from north to south; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. X_8)	4,219.909
Thisbe, 0.5 mile west of Derby Dam of U. S. Reclamation Service, at railroad mileage 264.5, in top surface of east abutment of bridge 9 over Truckee River, which flows under bridge from south to north; top of roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. Y_8)	4,223.820

From Fernley north along highway to Pyramid Lake Indian Reservation agency, thence west to Pyramid Lake. (Primary leveling by General Land Office, 1911-12.)

Fernley station, opposite semaphore, on main track of Southern Pacific R. R.; top of north rail (railroad elevation top of rail, 4,158.667)	4,153.8
Fernley station, 700 feet west of, 10 feet south of Southern Pacific R. R. main track, in south head wall of concrete culvert 277 A; bronze tablet (G. L. O. b. m.) (C. & G. S. b. m. S_8)	4,152.990
NOTE.—Station soon to be moved 0.3 mile west.	
Wadsworth, 1 mile southeast of (Fernley road); top of post. (U. S. R. S. b. m. marked "4099.0 S. P.)	4,094.472
Wadsworth, on south end of west abutment of old bridge; chiseled square (R. R. b. m.)	4,073.53
Wadsworth, in front of station; top of rail	4,083.61
Wadsworth, 1.5 miles northwest of, in fork of roads, in NE. ¼ SW. ¼ sec. 32, T. 21 N., R. 24 E., iron post marked "4215.744"	4,211.211
NOTE.—Line was begun at this bench mark, which was established by the U. S. Reclamation Service in 1904.	
Wadsworth, 1.8 miles west of, closing corner of Tps. 20 and 21 N., R. 24 E., on west boundary of Pyramid Lake Indian Reservation; iron post (3-inch post) marked "4202"	4,196.977
T. 21 N., R. 24 E., closing corner sec. 31, 1/16 section corner (south half), on west boundary of Pyramid Lake Indian Reservation; top of iron post	4,198.59
Milepost 137 1/2, Pyramid Lake Indian Reservation; top of iron post	4,201.28

	Feet.
Closing corner sec. 31, 1/16 section corner (middle line), on west boundary of Pyramid Lake Indian Reservation; top of iron post	4,201.92
Milepost 137, Pyramid Lake Indian Reservation; top of post	4,199.21
T. 21 N., R. 24 E., closing corner of secs. 30 and 31, Pyramid Lake Indian Reservation; top of iron post	4,198.94
T. 21 N., R. 24 E., closing corner sec. 30, 1/16 section corner (south half), Pyramid Lake Indian Reservation; top of iron post	4,198.94
T. 21 N., R. 24 E., closing corner sec. 30, 1/16 section corner (middle line), Pyramid Lake Indian Reservation; top of iron post	4,190.93
Milepost 136, Pyramid Lake Indian Reservation, T. 21 N., R. 24 E.; top of iron post	4,187.48
T. 21 N., R. 24 E., closing corner secs. 19 and 30, at Pyramid Lake Indian Reservation; top of iron post	4,181.24
T. 21 N., R. 24 E., Pyramid Lake Indian Reservation, closing corner sec. 19, 1/16 section corner (south half); top of iron post	4,180.42
Wadsworth, 4 miles northwest of, closing corner of T. 21 N., Rs. 23 and 24 E., on west boundary of Pyramid Lake Indian Reservation; iron post marked "4185"	4,180.204
T. 21 N., R. 23 E., Pyramid Lake Indian Reservation, milepost 134; top of iron post	4,222.26
T. 21 N., R. 23 E., Pyramid Lake Indian Reservation, milepost 133 1/2; top of iron post	4,302.99
T. 21 N., R. 23 E., closing corner sec. 12, 1/16 section corner (south half); top of iron post	4,327.97
Wadsworth, 7 miles northwest of, in fork of roads, on main road to reservation agency, in NE. ¼ SW. ¼ sec. 6, T. 21 N., R. 24 E.; iron post (U. S. R. S. b. m.) marked "4230.819"	4,226.145
Station K 21+218, on Southern Pacific R. R.; hub (location survey)	4,177.72
Station L 602, on Southern Pacific R. R., 33 feet north of station; hub (location survey)	4,171.06
T. 23 N., R. 23 E., in NW. ¼ SW. ¼ sec. 25, at reservation agency, at southwest corner of agency office building; iron post, marked "3908.870"	3,904.148
NOTE.—Line was begun at this bench mark, which was established by the U. S. Reclamation Service in 1904.	
Gale, near, ditch survey; peg marked "3884.30"	3,879.66
Duck Lake, water level, July 2, 1911	3,867.3
T. 23 N., R. 23 E., meander corner secs. 20 and 21, north bank Duck Lake; top of post	3,872.84
Pyramid Lake, near southwest corner, 250 feet from shore, in fork of roads; top of iron post stamped "B. M. No. 1, 3887"	3,882.258
T. 23 N., R. 23 E., quarter section corner of secs. 29 and 30	3,939.34
Station L 1073+37.6, Southern Pacific R. R. location survey; hub (railroad elevation "3963.5")	3,959.07
No. L 1069.162 of Southern Pacific R. R. (railroad gives elevation "3978.5")	3,974.20
From the agency north along highway to Winnemucca Lake, and by water levels along west shore 5 miles.	
T. 23 N., R. 23 E., sixteenth section corner of secs. 23 and 24 (south half); top of iron post	3,965.75
T. 23 N., R. 23 E., quarter section corner of secs. 13 and 14; top of iron post	3,960.36
Milepost 23, Pyramid Lake Indian Reservation; top of iron post	3,903.44

	Feet.
T. 23 N., R. 23 E., SE. ¼ NW. ¼ sec. 12, on east boundary of reservation, 10 feet N., 20° W. of milepost 23; iron post, originally stamped "3913" (probably now stamped "3908")	3,903.544
Winnemucca Lake, at Peacock's ranch; water level, July 11, 1911	3,852.56
Winnemucca Slough, 50 feet west of, near head of Winnemucca Lake, at Peacock's ranch, 100 feet east of house, 12 feet east of barn; iron post marked "3870"	3,861.317
T. 24 N., R. 23 E., N. ½ sec. 3, about 24 chains south and 4 chains west of meander corner between secs. 3 and 34, 300 feet west of lake, 10 feet east of road; 3-inch iron post with brass cap marked "3887"	3,878.680

WEILAND QUADRANGLE.

[Latitude 41°–41° 30′; longitude 115° 30′–116°.]

From point 13.6 miles northwest of Elko north to point near Weiland. (Single spur line by General Land Office, 1911–12; elevations unreliable.)

Elko, 14.5 miles north of, 125 feet west of barn at stage station, 75 feet to left of Elko-Tuscarora road, near telephone pole; standard bench-mark post marked "6179"	6,180.249
Elko, 16.22 miles north of, 10 feet to right of Elko-Tuscarora road, in 2-inch stake; nail	6,116.78
Elko, 16.9 miles north of, 8 feet to right of road, in 2-inch stake; nail	6,086.22
Elko, 17.34 miles north of, at top of hill before entering creek bottom, 20 feet left of Elko-Tuscarora road; standard bench-mark post marked "6072"	6,072.718
Elko, 17.97 miles north of, 15 feet to left of road, near old wagon; on stake	6,046.09
Elko, 19.6 miles north of, 30 feet to left of Elko-Tuscarora road, on top of hill; stake	6,038.77
Elko, 20.9 miles north of, 110 feet to left of Elko-Tuscarora road, near blazed telephone pole, in 2-inch stake; nail	5,974.94
Elko, 22.2 miles north of, 200 feet south of Parks's ranch house, in southwest corner of tank, on rock; cross	5,958.16
Elko, 22.6 miles north of, ½ mile north of Parks's ranch, 200 feet south of foot of hill where Gold Creek Road leaves Tuscarora Road, near fence corner, 60 feet east of Elko-Tuscarora road, in 2-inch stake; nail	5,930.22

WELLINGTON QUADRANGLE (including part of Yerington special quadrangle).

[Latitude 38° 30′–39°; longitude 119°–119° 30′.]

From point near Yerington station south along highway to Tedder's Bee ranch. (Primary line leveled twice by R. H. Chapman in 1913.)

Yerington station, 0.9 mile north of, east of road, south of lane to Yerington, in fence corner, in stub to telephone pole, 2 feet above ground; copper nail	4,388.22
Yerington station, 150 feet northeast of, 100 feet east of freight house; iron post stamped "4405 Wab"	4,406.960
Yerington, in front of station, main-line track; top of east rail	4,408.8
Yerington station, 0.5 mile south of, just north of milepost 12, in east end of railroad tie, at Bluestone road crossing; copper nail	4,405.99
Yerington station, 1.1 miles south of, west side of road; copper nail in peg, marked "T. B. M." on small granite boulder	4,414.04

	Feet
Mason, at southwest corner of Bridge Street and Mason Avenue, 6 inches from east wall of Mason Hotel, in sidewalk; bronze tablet stamped "4420 Wab"	4,422.390
Mason, northeast corner of old public-school house, east of railroad; ground (2 feet below top of foundation)	4,426.0
Mason, west end of bridge over Walker River, top of guard timber, 13.25 feet above zero of gage on piling, north side of bridge, north side of roadway; copper nail	4,406.81
Water level, under above-described bridge, August 23, 1913, 10.30 a. m	4,397.6
Mason, 0.4 mile south of, just north of Moore ranch house, east of road, north of old ditch, in root of cottonwood tree; copper nail	4,415.65
Mason, 0.9 mile south of, 250 feet east of railroad, at corner of main road turning west across railroad; iron post stamped "4420 Wab"	4,421.925
Mason, 1 mile south of, 400 feet north of milepost 15, north side of railroad crossing, east end of tie; copper nail	4,428.64
Mason, 1.7 miles south of, 350 feet north of culvert, at point where right of way fence crosses track, in west end of railroad tie; copper nail	4,428.92
Mason, 2.1 miles south of, lane crossing railroad to east, in stub of fence-corner post; copper nail	4,438.41
Mason, 2.4 miles south of, 1,000 feet southeast of Tedder's Bee ranch, 1.5 miles north of Nordyke, west side of road; iron post stamped "4439" Wab"	4,441.065
From Yerington station east along highway to Yerington (leveled twice).	
Yerington station, 0.3 mile east of, east end of north truss of bridge over Walker River; copper nail	4,391.33
Walker River, under truss bridge; surface of water, August 11, 1913	4,381.1
Yerington station, 1.4 miles east of, southeast corner of Main and Bridge streets in Yerington, 12 feet southwest of city water hydrant, 75 feet northwest of Daniels & Rogers livery stable, streets intersect at corner of secs. 14, 15, 22, and 23, T. 13 N., R. 25 E.; iron post stamped "4382 Wab"	4,384.313
Yerington, Lyon County courthouse; top of step immediately above following described bench mark	4,384.28
Yerington, in vertical face near south end of lower step of Lyon County courthouse; bronze tablet stamped "4382 Wab"	4,384.047
From Yerington station west along highway to Mickey Pass (leveled twice).	
Yerington station, 0.6 mile west of, 100 feet west of road fork, in peg at signboard "Reno-Yerington"; copper nail	4,491.67
Yerington station, 0.5 mile west of, on top of post west stay to frame of Nevada Empire shaft, 2 feet above ground; copper nail	4,487.28
Yerington station, 1 mile west of, 5 feet south of post marked "NW. cor. of Gray Eagle No. 1," on top of claim post; copper nail	4,591.78
Yerington station, 1.2 miles west of, 20 feet south of road, on top of pyramid boulder embedded in gravel wash	4,642.68
Yerington station, 1.6 miles west of, 140 feet northwest of post marked "SW. cor. Down No. 1," and 5 feet south of road; iron post stamped "4735 Wab"	4,737.315
Yerington station, 1.7 miles west of, 10 feet north of road, in top of white stake with black band marked "N. S. Center Brownie No. 5"; copper nail	4,780.90

	Feet.
Yerington station, 1.9 miles west of, 500 feet west of pink hill, 100 feet south of end of pink ridge, in forks of road south to quarry, on hub of pink rock	4,846.41
Yerington station, 2.2 miles west of, 500 yards east of power line at foot of red hill, 30 feet south of road, in wash, on top of pink boulder, marked "B. M."	4,924.99
Yerington station, 2.6 miles west of, 25 feet south of and 5 feet above road; on big gray boulder	5,104.20
Yerington station, 2.8 miles west of, at entrance to "The Canyon," 8 feet above road; on shoulder of solid rock	5,188.28
Yerington station, 2.9 miles west of, 135 feet east of mouth of north tunnel of Rocky Mountain King mine, just south of road; on shoulder of blue boulder	5,244.29
Yerington station, 3.2 miles west of, 100 feet west of steep ditch, north edge of road; on granite slab	5,421.98
Yerington station, 3.5 miles west of, 5 feet southeast of corner marked by large stone in forks of wash; on sharp rock	5,589.36
Yerington station, 3.9 miles west of, 15 feet north of road, 4 feet south of small cairn, on top of iron-stained rock	5,740.21
Yerington station, 4 miles west of, 5 feet north of road, at highest point in Mickey Pass; iron post stamped "5866 Wab"	5,868.331

From Mickey Pass southwest along highway to Ludwig (single-spur line closing upon railroad levels).

Yerington station, 4.6 miles west of, 460 feet east of "Honest Endeavor" shaft, south edge of road; on pink boulder	5,628.74
Yerington station, 5 miles west of, 40 feet north of road, on top of post supporting sign "Honest Endeavor Mining Co."	5,482.96
Ludwig, 1.8 miles north of, 20 feet west of road, southeast corner of collar of shaft of Nevada Queen Copper Co.; copper nail	5,401.73
Ludwig, 1.5 miles north of, 0.25 mile east of black paper covered houses of Nevada Queen Copper Co., 150 feet south of crossroads, 20 feet east of road, on granite boulder	5,421.87
Ludwig, 1.1 miles north of, 100 feet east of small drain from north, 10 feet south of road, on small boulder in wash	5,376.31
Ludwig, 1 mile north of, 100 feet south of and 20 feet below claim post marked "SW. cor. Dan Durand," south edge of road; on white rock	5,297.20
Crossing of road and railroad just north of Ludwig incline shaft	5,181.2
Ludwig, 2 feet north of north wall and 11 feet east of northwest corner of station; iron post stamped "5122"	5,124.414
Ludwig, in front of station, on heavy grade; top of rail	5,124.
Ludwig, 1,575 feet north of station, 50 feet east of track, 175 feet north of Dr. L. M. Cramer's house, 350 feet south of incline shaft of Ludwig Mine; peg (N. C. B. R. R. b. m.)	5,175.09

NOTE.—The following bench marks established by the U. S. Reclamation Service are reduced to 1912 adjustment and partly checked by railroad levels.

Wilson's, at forks of main road and private road to M. Wilson's house, just east of mouth of canyon of West Fork of Walker River; iron post stamped "4528.2 SP."	4,523.47
Hudson, in sec. 3, T. 11 N., R. 24 E., northwest of cross roads, on road to Wellington, at fork of road to north (to Ludwig) west of railroad track; iron post stamped "4726.2 SP."	4,721.47

WHITE MOUNTAIN QUADRANGLE.

[Latitude 37° 30′–38°; longitude 118°–118° 30′.]

From Sunland southwest along Southern Pacific R. R. to California-Nevada State line. (Precise leveling by U. S. Coast and Geodetic Survey.)

	Feet.
Sunland, 3.5 miles southwest of, one telegraph pole and 30 meters west of milepost 462, 6 meters north of track, on top of iron post; red-metal disk (C. & G. S. b. m. O_{13})	6,698.976
Sunland, 5.5 miles southwest of, 0.11 mile north of Nichols, 235 feet west of milepost 464, 42 feet west of railroad track, 36 feet northwest of culvert sign 464 A, on bank of small drain, cemented in large boulder; bronze tablet stamped "6471 U. S. G. S." (C. & G. S. b. m. P_{13})	6,463.432
Queen, in section foreman's yard, 28 feet east of old house, 26 feet west of railroad track, under large cottonwood tree; iron post stamped "6179 U. S. G. S." (C. & G. S. b. m. Q_{13})	6,171.763
Queen, 2 miles west of, on State line monument, in south side of footing; in top of stone post, bottom of square hole (C. & G. S. b. m. R_{13})	5,978.374
Queen, 2.35 miles southwest of, 0.35 mile southwest of Von Schmidt monument, 75 feet west of railroad, 5 feet west of rock cairn on U. S. C. & G. S. State line; iron post stamped "U. S. G. S. 5943" (C. & G. S. b. m. S_{13})	5,935.684

From California-Nevada line northeast along Southern Pacific R. R. to point 2 miles north of Sunland. (Primary leveling by D. H. Watson in 1913.)

Queen, 2.35 miles southwest of, 0.35 mile southwest of Von Schmidt monument, 75 feet west of railroad, 5 feet west of rock cairn 59 on U. S. C. & G. S. State line; iron post stamped "5943 1913"	[1] 5,935.684
Queen, 2.13 miles southwest of, at road crossing near milepost 469; top of rail	5,962.1
Queen, 2 miles southwest of, at "Von Schmidt's" State line; top of rail	5,977.3
Queen, 1 mile southwest of, in base of "Queen 1 mile" sign; railroad spike	6,085.08
Queen, in section foreman's yard, 28 feet east of house, 28 feet west of railroad track, under large cottonwood tree; iron post stamped "6179 1913"	[1] 6,171.763
Queen, 0.52 mile northeast of, at road crossing; top of rail	6,189.4
Queen, 1 mile northeast of, in base of "Queen 1 mile" sign; railroad spike	6,249.20
Sunland, 6.5 miles southwest of, opposite milepost 465; top of rail	6,341.4
Sunland, 5.5 miles southwest of, 0.11 mile north of Nichols, 235 feet west of milepost 464, 42 feet west of railroad track, 36 feet northwest of culvert sign 464 A, on bank of small drain, cemented in large boulder; bronze tablet stamped "6471 1913"	[1] 6,463.432
Sunland, 4.5 miles southwest of, opposite milepost 463; top of rail	6,589.4
Sunland, 3.28 miles south of, at road crossing, in large canyon; top of rail	6,732.0
Sunland, 2.5 miles southeast of, opposite milepost 461; top of rail	6,830.6
Sunland, 1 mile southeast of, in base of "Sunland 1 mile" sign; railroad spike	7,004.6

[1] Redetermined by U. S. Coast and Geodetic Survey precise line in 1915.

	Feet.
Sunland, 33 feet southwest of station, 33 feet west of whistling post, 42 feet west of road crossing, cemented in rock; bronze tablet stamped "7129 1913" (C. & G. S. b. m. N_{13}) [1]	7,121.574
Sunland, 0.2 mile north of, in summit of saddle; top of rail	7,141.4
Buena Vista, at road crossing; top of rail	7,122.0
Buena Vista, 0.31 mile north of, at road crossing; top of rail	7,102.7
Basalt, 6.5 miles southwest of, opposite milepost 457; top of rail	7,034.1

From Silver Peak road junction 4 miles south of The Crossing southwest via Fish Lake to McAfee ranch, thence southeast to State line. (Primary leveling by C. R. Smith in 1897–8.)

The Crossing, 4 miles south of, at Silver Peak road junction; top of iron post of guideboard	4,731.413
Fish Lake, opposite Stuart home, between road and shore of Fish Lake; iron post stamped "4865"	4,783.949

WHITE PLAINS QUADRANGLE (NW. ¼ Carson Sink 1° quadrangle).

[Latitude 39° 30′–40°; longitude 118° 30′–119°.]

From Miriam southwest along the Southern Pacific R. R. to Massie. (Precise leveling by U. S. Coast and Geodetic Survey.)

Miriam, 6.6 meters east of station, at railroad mileage 324.2, 29 meters south of track, 0.8 meter west of telegraph pole in second line of poles, set in cement or stone post; red-metal disk (C. & G. S. b. m. A_8)	3,917.397
Huxley, 1 mile east of, at mileage 317.6 of Southern Pacific R. R., on east abutment of bridge 317 A; red-metal disk (C. & G. S. b. m. B_8)	3,892.391
Parran, on south side of southwest concrete pillar under Southern Pacific R. R. water tank; red-metal disk (C. & G. S. b. m. C_8)	3,885.953
Desert, 1.5 miles east of, at railroad mileage 308.4, in top surface of concrete abutment of small railroad bridge; top of a roundheaded bolt (S. P. R. R. b. m.) (S. P.) (C. & G. S. b. m. D_8)	3,890.599
Desert, 0.9 mile west of, 1 meter north of milepole 306, 18.8 meters north of track, 50 meters east of distant signal, set in cement or stone post; red-metal disk (C. & G. S. b. m. E_8)	3,902.866
Upsal, at railroad mileage 303.6, 200 meters east of 1-mile sign at east side of Upsal, in concrete culvert 303 A; top of a roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. F_8)	3,901.521
Upsal, 150 meters west of station, on top surface of east abutment of small bridge 301 A, 2 meters south of track and 0.6 meter below it; red-metal disk (C. & G. S. b. m. G_8)	3,905.543
Falais, 1.2 miles east of, in top surface of west concrete abutment of small bridge 299 A; top of a roundheaded iron bolt (S. P. R. R. b. m.) (C. & G. S. b. m. H_8)	3,935.356
Massie, at railroad mileage 293.2, 0.3 mile east of east end of siding, on top surface of east abutment of bridge 293A; red-metal disk (C. & G. S. b. m. I_8)	3,975.451
Massie, at railroad mileage 291.7, 0.3 mile west of west end of siding, on top surface of east abutment of bridge 291 A; red-metal disk (C. & G. S. b. m. J_8)	3,991.816

[1] Redetermined by U. S. Coast and Geodetic Survey precise line in 1915.

WINNEMUCCA QUADRANGLE.

[Latitude 40° 30′–41°; longitude 117° 30′–118°.]

From Golconda west along Southern Pacific R. R. to Cosgrave. (Precise leveling by U. S. Coast and Geodetic Survey.)

	Feet.
Golconda, near, in top surface of west abutment of bridge 2 over Humboldt River, north of track; top of a round-headed iron bolt, the stone is marked on top with the railroad's value of the elevation, 4348.238 feet (C. & G. S. b. m. W_6) (S. P.)	4,353.679
Golconda, 100 meters west of station, 50 meters south of track, on northwestern one of concrete pillars under water tank; red-metal disk (C. & G. S. b. m. X_6)	4,386.310
Eglon, 41.7 meters north of track, 29.2 meters north of milepost 429, 1 meter south of north line fence, in cement or stone post; red-metal disk (C. & G. S. b. m. Y_6)	4,324.493
Tule, 250 meters west of milepost 423, 100 meters east of west point of siding, 29 meters south of track, 27 meters north of south line fence, opposite derailing switch to spur, and in line with telegraph poles, set in cement or stone post; red-metal disk) (C. & G. S. b. m. Z_6)	4,307.928
Winnemucca, in foundation of Humboldt County courthouse, to left of entrance of Bridge Street, red-metal disk (C. & G. S. b. m. A_7)	4,318.315
Benin, opposite station sign, at railroad mileage 412.2, 60.4 meters south of track, 1.1 meters north of south fence, red-metal disk set in cement or stone post (C. & G. S. b. m. B_7)	4,298.085
Rose Creek, 36.4 meters south of south side and in line with west side of station, 45 meters south of track, 0.9 meter north of fence set in cement or stone post; red-metal disk (C. & G. S. b. m. C_7)	4,324.194
Lamar, 0.2 mile east of station sign, 40 meters north of milepost 402, 59.2 meters north of track, 1.3 meters north of fence, in cement or stone post; red-metal disk (C. & G. S. b. m. D_7)	4,291.855
Cosgrave, south of water tank, 30 meters south of track, 0.7 meter north of south line fence, set in cement or stone post; red-metal disk (C. & G. S. E_7)	4,300.595

APPENDIX.

SECONDARY ELEVATIONS.

Secondary elevations from records and topographic maps of the United States Geological Survey, including altitudes of well-known summits and other useful elevations, are given below. These elevations are approximate only and should not be used for accurate work.

Locality.	Quadrangle.	County.	Elevation.
			Feet.
Arizona Peak:			
1.5 miles northwest of ranch of J. B. Wheeler; bronze tablet stamped "V. A. 7884."	Highland	Lincoln	7,884
Bailey triangulation station:			
On a red summit, 1.1 miles southeast of Bailey Spring and 4.5 miles northwest of Bristol Well; tablet stamped "V A B M 6658."	Bristol Range	do	6,658
Bald Mountain	Hawthorne	Esmeralda	9,220
Bald Mountain	Tonopah	Nye	9,275
Bald Mountain triangulation station	Manhattan	do	9,274
Banner Mountain	Goldfield special	Esmeralda	6,050
Belted Peak	Kawich	Nye	8,340
Bennett Pass:			
On north summit of granite hill, 7.5 miles west of, and 1 mile west of forks in Hiko-Pioche & Hiko-Panaca roads; bronze tablet stamped "V. A. 5425."	Highland	Lincoln	5,425
Berlin Mountain	Tonopah	Nye	9,081
Big Indian Mountain	Hawthorne	Esmeralda	11,303
Big Kasock	Carson Sink	do	7,103
Black Butte	Goldfield special	Nye	5,915
Black Cap Mountain	do	Nye	6,383
Black Mountain triangulation station	Ivanpah	Clark	5,043
Black Mountain triangulation station	Hawthorne	Esmeralda	8,136
Black Peak	Bullfrog special	Nye	4,785
Bristol triangulation station:			
On a high summit of Bristol Range, 5.0 miles south of Jackrabbit Mine and 7.2 miles southeast of Bristol Well; tablet stamped "V A B M 8908."	Bristol Range	Lincoln	8,908
Brown Knob	Carson Sink	Esmeralda	6,078
Buckeye Hill	Manhattan	Nye	8,840
Bullfrog Mountain	Bullfrog special	do	4,960
Busch Peak	do	do	5,085
Butler Mountain	Tonopah	Esmeralda	7,170
Buxton Mountain	Bullfrog special	Nye	4,385
Charleston Peak	Las Vegas	Lincoln	1,910
Colorado River, lowest point in State	Camp Mohave	Clark	470
Columbia Mountain	Goldfield special	Esmeralda	6,095
Como Peak	Wabuska	Douglas	9,000
Cory Peak triangulation station	Hawthorne	Esmeralda	10,516
Desert Creek Peak	Wellington	Lyon	9,020
Diablo Grande Peak	Ivanpah	Clark	5,865
Diamond King Hill	Manhattan	Nye	8,916
Division Peak	Long Valley	Humboldt	8,585
Ely Range triangulation station:			
On the summit of a spur from Ely Range, 2.2 miles northwest of Wild Horse Bill Spring and 3.6 miles northeast of Fairview Peak; bronze tablet stamped "V A B M 7378."	Bristol Range	Lincoln	7,378

Locality.	Quadrangle.	County.	Elevation.
			Feet.
Ely Springs: On lava summit about 5 miles southwest of, on east side of Smiley's automobile road to Delamar; bronze tablet stamped "V. A. 4945."	Highland	Lincoln	4,945
Emigrant Peak triangulation station	Lida	Esmeralda	6,805
Espina Hill	Goldfield special	Nye	6,258
Fairview Peak triangulation station	Carson Sink	Churchill	8,243
Gold Mountain triangulation station	Lida	Esmeralda	8,145
Grant Mountain triangulation station	Hawthorne	do	11,303
Grapevine Peak	Ballarat	Nye	8,705
Highland: About 100 feet west of ranch house of J. B. Wheeler, on south side of road; bronze tablet stamped "V. A. 6,610."	Highland	Lincoln	6,610
Highland Range: Summit of, 8 miles west of town of Pioche; Highland triangulation tablet stamped "V. A. 9,395."	do	do	9,395
Jackrabbit triangulation station: On a summit of Bristol Range, 0.7 mile southwest of Jackrabbit Mine and 4.5 miles southeast of Bristol Well; tablet stamped "V A B M 7890."	Bristol Range	do	7,890
Job Peak triangulation station	Carson Sink	Churchill	8,799
Kawich Peak triangulation station	Kawich	Nye	9,500
Ladd Mountain	Bullfrog special	do	4,155
Little Pilot Peak	Tonopah	Esmeralda	8,046
Lone Mountain triangulation station	do	do	9,114
Lyon Peak	Wabuska	Lyon	8,784
McCullough Mountain triangulation station	Ivanpah	Clark	6,996
Magruder Mountain triangulation station	Lida	Esmeralda	9,057
Montezuma Peak triangulation station	do	do	8,426
Montgomery Mountain	Bullfrog special	Nye	4,355
Monument Peak	Markleeville	Douglas	10,085
Mount Ely: About 2 miles west of town of Pioche; Ely triangulation tablet stamped "V. A. 7,310."	Panaca	Lincoln	7,310
Myers Mountain	Goldfield special	Esmeralda	6,310
Newhouse Peak	Yerington	Lyon	5,834
Oreana Peak	Wellington	Douglas	9,380
Pahute Peak	Long Valley	Humboldt	8,618
Paradise Peak	Tonopah	Nye	8,668
Peavine Peak	Reno	Washoe	8,270
Pilot Cone triangulation station	Hawthorne	Esmeralda	6,602
Pilot Peak	Tonopah	do	9,207
Pond Peak	Wadsworth	Washoe	8,010
Potosi triangulation station	Ivanpah	Clark	8,500
Powell Mountain	Hawthorne	Esmeralda	9,545
Preble Mountain	Goldfield special	Nye	6,635
Prince Consolidated mine: Summit of low hill on west side of large wash, 2.5 miles southwest of; bronze tablet stamped "V. A. 5,570."	Panaca	Lincoln	5,570
Pyramid Lake, water surface	Reno	Washoe	3,869
Quartzite	Kawich	Nye	7,795
Rainbow Mountain	Bullfrog special	do	4,725
Red Hill triangulation station: Summit of red hill at south end of ridge of which Mount Ely is the north end; triangulation tablet stamped "V. A. 6,625."	Panaca	Lincoln	6,625
Red Mountain triangulation station	Lida	Esmeralda	8,940
Reveille Peak	Kawich	Nye	8,910
Rib Hill	Ely	White Pine	8,062
Salisburg Peak triangulation station	Manhattan	Nye	8,290
San Antonio Mountain	Tonopah	do	8,487
Saxton Peak	Ely	White Pine	7,945
Sheep Peak triangulation station	Las Vegas	Lincoln	9,706
Sherman Peak	Tonopah	Nye	8,690

Locality.	Quadrangle.	County.	Elevation.
			Feet.
Singatse Peak	Yerington	Lyon	6,364
Skull Mountain	Furnace Creek	Nye	5,950
Slate Mountain	Carson Sink	Churchill	7,113
Spearhead Point	Goldfield special	Esmeralda	6,051
Stirling Mountain	Las Vegas	Nye	8,183
Stonewall Mountain	Lida	do	8,390
Table Mountain	Carson Sink	Churchill	8,283
Tahoe Lake, water surface	Markleeville-Carson	Douglas, Nev / Eldorado, Cal	6,225
Tolicha Peak triangulation station	Kawich	Nye	7,030
Toyabe Arc Dome triangulation station	Tonopah	do	11,775
Twin Peaks	Carson Sink	Churchill	7,103
Velvet Peak	Bullfrog special	Nye	3,960
Vindicator Mountain	Goldfield special	Esmeralda	6,069
Wahguyhe	Ballarat	Nye	8,590
Wheelbarrow Peak	Kawich	do	8,605
White Mountains, East Peak, highest point in State yet determined.	C. & G. S. Report 1900.	Esmeralda	13,145

INDEX.

A. Page.

Acme 27
Acoma 58
Acton 64
Akbar 19
Alazon 20
Allen Spring 16
Amargosa 24, 25, 41
Ancram 39
Anthony 18
Apex 63
Arden 40
Argenta 10
Argo 73
Atchison, Topeka & Santa Fe Ry 12, 13, 37
Aura quadrangle 7–10
Aurora 31
Avenel 21

B.

Banvard 19
Barclay 58
Bard 39
Barnwell, Cal 43
Barrel Springs 65
Basalt 28
Battle Mountain 10
quadrangle 10
Battle's Well 29, 69
Beatty 23, 24, 25
Belleville 28, 29
Bench marks, forms of 5–6
plate showing 4
Benders Emigrant Pass 66
Benin 81
Bennet Springs 32, 53, 54
Beowawe 51
Berlin 70
Bermond 15, 17
Big Smoky Valley 66
Big Springs 58
Big Summit 55
Biggs, L. F., leveling by 12, 34, 37, 42, 43
Birkett, D. S., leveling by 32, 51
Black Springs 70
Blair Junction 67, 68
Blair mine 66
Bodie Creek 10, 11, 31, 32
Bonnie Claire 39, 45
Borax 38
Boss mine 37
Boyd 57

Page.

Bracken 40
Bridgeport 10
quadrangle 10–11
Bristol mine 12
Bristol Pass 12
Bristol Range quadrangle 11–12
Bristol Well 12, 34
Brown 58
Buena Vista 80
Bullfrog 25, 26
Bullfrog Goldfield R. R 23, 39, 44, 45
Bullion mine 37
Byron 64

C.

Caliente 51, 52, 57
California State line 10, 25, 37, 46, 79
Camp Mohave quadrangle 12–13
Cana 57
Candelaria 29
Carlin 51
Carp 56, 65
Carson City 61, 62
Carson River 14, 71
Carson Sink quadrangle 13–17, 80
Cave Springs 66
Cedar 18
Cedar Pass quadrangle 17–18
Central 69, 70
Chapman, R. H., leveling by 72, 76
Churchill 71, 72
County 7
Cipac mine 69
Clark 59
County 7, 34
Clifton 71
Cloverdale 69, 70
Cluro 51
Coaldale 67, 71
Cobre 19
quadrangle 18–19
Coin 21
Columbia 43, 44
Junction 68
Pass 36
Columbus 29, 65, 71
Comet mine 32
Comus 67
Copper Flat 23
Corn Creek 42
Cosgrave 81

Page.
Cottonwood Pass 35
Cow Camp Springs 66
Cox Canyon 17
Coyote Creek 66
Coyote Spring 65
Crestline 58
Crossing, the 66, 80
Crystal 63
Culver ranch 38
Currie Well 25

D.

Darroughs Hot Springs 70
Datum, inland, indication of 6
Davis, G. R., direction by 5
Daylight Springs, Cal 25
Dayton 62, 71
Deeth 20
quadrangle 20
Del Monte 31
Del Mues 52, 53
Derby 74
Desert 80
Well 17
Diamondfield 47
Dike 41
Ditho 60
Dodon 50
Douglas, E. M., direction by 5
Dry Lake 12, 13, 63
Valley 33
Dry Well 66
Duck Lake 75

E.

Eagle City 46
Eagleville 15
East Walker River 10, 11, 31
Eccles 58
Eglon 81
Elbow, the 11
Elburz 20
Elevations, precise, method of determining 5
primary, method of determining 5
secondary 83–85
Elgin 56, 57
Elko 21, 22, 76
County 7
quadrangle 20–22
Ely 23
special quadrangle 23
Springs 32, 33
Erie 38
Esmeralda County 7
Etna 57
Eureka County 7

F.

Fairview 17
Falais 80
Fallon 14, 15, 16
Farmer, R. A., leveling by 45

Page.
Farrel 10
Fenelon 18
Fernley 73, 74
Filben 29
Fish Lake 80
Fletcher 11, 31, 32
Franktown 61
Furnace Creek quadrangle 23–26

G.

Gage No. 7 59
Gale 75
Galt 65
Gannett, S. S., work of 5
Gap Springs 66
Garnet 63
General Land Office, leveling by 7, 22, 26, 39, 59, 62, 74, 76
Gerald 51
Gerdine, T. G., direction by 5
Gillis 27
Gilpin 74
Golconda 81
Gold Creek quadrangle 26
Gold Mountain Mining Co.'s plant 48
Goldbar 26
Goldfield 44, 47
Goldyke 70, 71
Good Springs 34, 35, 36, 37
Goode, R. U., direction by 5
Government Canal 14
Granite Point 48
Green, T. A., leveling by 15. 29, 69
Greens Well 46
Guelph 64

H.

Hadley, Homer, leveling by 46
Hafed 60
Halfway 47
Halleck 26
quadrangle 26
Harney 51
Hawthorne 29, 30, 31
quadrangle 26–32
Hazen 13, 73
Herrin 67
Highland quadrangle 32–34
Holborn 18
Hot Springs, Furnace Creek quadrangle 23
Hawthorne quadrangle 30
Hoya 64
Hudson 78
Huffaker 61
Humboldt 50
County 7, 81
River 21, 22, 51, 67, 81
Huxley 80

I.

I X L Canyon 17
Icarus 18
Imlay 50

Page.
Indian Springs 41, 42, 45
Iron point 67
Island Butte 9
Islen 58
Ivanpah quadrangle 34–38

J.

Jack Rabbit mine 11, 12
Jean 34, 37, 38
County 34
quadrangle 38–39

K.

Kaw 18
Kawich quadrangle 39
Kelly's Well 30, 71
King's Spring 24, 25
Klondyke 43
Kodak 48
Kumiva quadrangle 39–40
Kyle 56

L.

Ladoga 10
Lakeview 61
Lamar 81
Lander County 7
Lane City 23
Las Vegas 12, 40, 41, 42, 43
quadrangle 40–43
Las Vegas & Tonopah R. R. 23, 24, 25, 41, 44, 45
Lawton 60
Leith 56
Lien 58
Lida 45, 46
quadrangle 43–48, 65–66
Limerick Canyon 49
Lincoln County 7
Little Summit 28, 29, 55
Loray 19
Lovelocks 48
quadrangle 48–50
Lower Black Spring 69
Lucky Boy 30
Ludwig 78
Luning 27, 28, 29
Luva 73
Lyon County 7

M.

McLaughlin, Fred, leveling by 23
McSweeney Junction 43, 68, 69
McVicar mine 36
Magnus 27
Mahala 13, 14
Main Line Junction 68
Manhattan 70
Manse 43
Maps, topographic, list of 7
Marmol 60
Marshall, R. B., direction by 5

Page.
Mason 77
Massie 80
Mesquite Spring 12, 43
Mickey Pass 78
Midway 69
Mill City 50
quadrangle 50
Millers 68
Mina 28, 29
Mineral County 7
Minto 58
Mirage 14
Miriam 80
Moapa 64
Modena, Utah 54
Moleen 21
Monocline, the 66
Montana 46
Monte Cristo 15
Montello 19
Montezuma Wells 69
Montgomery-Shoshone mine 25
Moor 18
Morgan Mills 62
Mosel 10
Mote 66
Mound House 62
Mount Jackson 46
Mountain City 9, 26
Mountain Spring 34, 35, 42, 43
Mountain Well 15, 16
Mud Spring Canyon 31
Mud Springs 25, 39
Muddy Creek 64
Murphy's Well 30

N.

Nardi 20
Natchez 20
Needles, the 59
New Boston 28
New Year Mine 37
Noble 19
Nordyke 77
Nye County 7

O.

Omar 19
Ophir Canyon 70
Summit 70
Oreana 48, 49, 50
Original 25
Ormsby County 7
Osino 21
Owyhee 7, 8, 9, 10, 26
Creek 26
River 8, 9

P.

Pactolus 70
Pahrump 24, 43
Palisade 51
quadrangle 50–51

Page.
Palmetto 45
Panaca 52, 53
quadrangle 51–56
Parran 80
Patna 73
Pendleton, T. P., leveling by 13
Pequop 18
Personnel, record of 5
Perth 48
Philips, Ress, leveling by 25, 39, 69, 71
Pioche 11, 34, 53, 54, 55, 56
quadrangle 51–58
Pioneer 23, 39
Piute 66
Point mine 34, 51
Potosi mine 35, 43
Power Rochester 50
Preble 67
Publications previous 5
Pyramid Lake 59, 62, 75
Indian Reservation 74, 75
quadrangle 59

Q.

Queen 79

R.

Ralston 44
Ramseys Well 47, 48
Rawhide 15, 30
Red Cloud mine 36
Red Rock 44
Redlich 26, 67, 71
Reeves, Roscoe, leveling by 11, 32, 55
Reno 60, 61
quadrangle 59–63
Rhyolite 25
Ripley 36, 37
Roach 38
Rochester 49, 50
Canyon 49
Special quadrangle 48
Rockhill 67
Rose Creek 81
Rose Valley School 54
Rosewell 24
Rosny 10
Rox 64
Rye Patch 48
Ryndon 20, 21

S.

Saddlebit Canyon 49
St. George 56
St. Thomas quadrangle 63–65
Salt Well 15, 16, 66
Junction 15, 16
San Antonio 69
San Pedro, Los Angeles & Salt Lake R. R. 38, 40, 42, 51, 53, 56, 63
Sand Spring 46

Page.
Schurz 15, 16, 26, 27, 30, 72
Sea level, mean, definition of 6
Searchlight 13, 37, 43
mine 13
Seattle Well 39, 46
Silver Peak 65, 66
quadrangle 65–66
Sloan 38
Smith, C. R., leveling by 29, 65, 80
Sodaville 29
Southern Pacific R. R. 10, 13, 17, 18, 20, 21, 22, 26, 28, 30, 48, 50, 51, 59, 60, 62, 66, 67, 71, 72, 73, 74, 75, 79, 80, 81
Sparks 60
Stampede Pass 33, 34
Steamboat Springs 61
Stewart 41
Stillwater 16, 17
Stine 57
Stonehouse 67
quadrangle 66–67
Storey County 7
Stump Springs 38, 43
Summerville 46
Summit 31
Sunland 28, 79, 80
Sutor 38
Sweetwater 10

T.

Tecoma 18, 19
Thisbe 74
Thorne 27
Tiffin mine 36
No. 2 36
Tonka 21
Tonopah 28, 68, 69
quadrangle 67–71
Tonopah & Goldfield R. R. 28, 43, 44, 67, 68
Tonopah & Tidewater R. R. 23
Tonopah Junction 28, 29
Toulon 49
Toy 49
Truckee River 59, 60, 74
Tulasco 20
Tule 81
Spring 46
Tyrol 51

U.

Ullin 19
Union Canyon 70
United States Coast and Geodetic Survey, leveling by 10, 17, 18, 20, 23, 26, 38, 39, 41, 43, 48, 50, 56, 59, 60, 63, 66, 67, 71, 73, 79, 80, 81, 83
Upsal 80
Utah State line 18
Ute 63

V.

	Page.
Valery	50
Valley	41
Pass	17
Valmy	67
Verdi	60
Vigo	65
Vivian	22, 50
Virginia & Truckee Ry	60, 61, 62
Vista	60
Volcanic Cone	8

W.

Wabuska	72, 73
quadrangle	71–73
Wadsworth	74, 75
quadrangle	73–76
Wagner	44, 45
Walker	30
Lake	30
River	77
West Fork of	78
Warner's Well	30
Washoe	61
County	7
Watson, D. H., leveling by	28, 79
Weaver Canyon	49
Weiland	22, 76
quadrangle	76
Wellington quadrangle	76–78
Wells	18, 20
Western Pacific Ry	20, 22, 50, 51, 59
Weston, C. M., leveling by	10, 30
White Mountain quadrangle	79–80
White Pine County	7
White Plains quadrangle	80
Willows, the	62, 63
Wilson Pass	35, 36
Wilson's	78
Wilsons Well	46, 47
Winnemucca	81
Lake	40, 76
quadrangle	81
Woolsey	48
Wright	19

Y.

Yerington	73, 76, 77, 78
special quadrangle	71–73

Z.

Zola	48

O